abcam

Product datasheet

Anti-Bcl-XL antibody [E18] ab32370

重组 RabMAb

★★★★★ 10 Abreviews 211 References 18 图像

概述

产品名称	Anti-Bcl-XL抗体[E18]
描述	兔单克隆抗体[E18] to Bcl-XL
宿主	Rabbit
特异性	This antibody should recognize Bcl-XL, Bcl-xS and Bcl-x(beta) as the immunogen sequence is common to them. The antibody does not cross-react with other Bcl-2 family members.
经测试应用	**适用于:** WB, IHC-P, ICC/IF, IP, Flow Cyt (Intra)
种属反应性	**与反应:** Mouse, Rat, Human **预测可用于:** Pig
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Jurkat, K562, C6, RAW264.7, PC-12 NIH/3T3 cell lysates. IHC-P: Human endometrium and prostate carcinoma tissues. ICC/IF: HepG2, NIH/3T3, C6 and HeLa cells. Flow Cyt (intra): DU145 and Jurkat cells. IP: Jurkat whole cell lysate (**ab7899**).
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
解离常数 (K_D)	K_D = 6.50 x 10^{-11} M

Learn more about K_D

存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	E18
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab32370于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

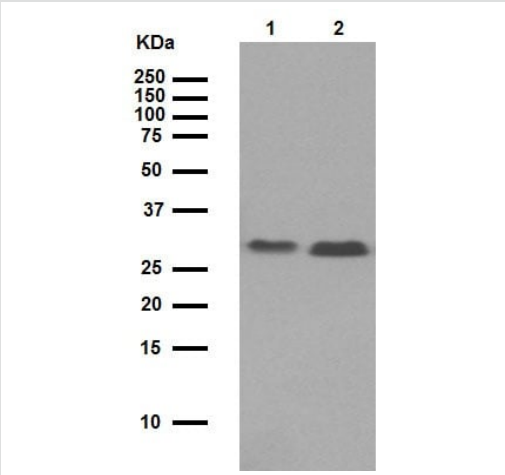
应用	Ab评论	说明
WB	★★★★★ (8)	1/1000. Detects a band of approximately 26 kDa.
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
ICC/IF	★★★★★ (1)	1/100 - 1/500.
IP		1/10 - 1/30.
Flow Cyt (Intra)		1/20 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

靶标

功能	Potent inhibitor of cell death. Inhibits activation of caspases (By similarity). Appears to regulate cell death by blocking the voltage-dependent anion channnel (VDAC) by binding to it and preventing the release of the caspase activator, CYC1, from the mitochondrial membrane. Isoform Bcl-X(S) promotes apoptosis.
组织特异性	Bcl-X(S) is expressed at high levels in cells that undergo a high rate of turnover, such as developing lymphocytes. In contrast, Bcl-X(L) is found in tissues containing long-lived postmitotic cells, such as adult brain.
序列相似性	Belongs to the Bcl-2 family.
结构域	The BH4 motif is required for anti-apoptotic activity. The BH1 and BH2 motifs are required for both heterodimerization with other Bcl-2 family members and for repression of cell death.
翻译后修饰	Proteolytically cleaved by caspases during apoptosis. The cleaved protein, lacking the BH4 motif, has pro-apoptotic activity.
细胞定位	Mitochondrion membrane. Nucleus membrane. Mitochondrial membranes and perinuclear

envelope.

图片



Western blot - Anti-Bcl-XL antibody [E18] (ab32370)

All lanes : Anti-Bcl-XL antibody [E18] (ab32370) at 1/1000 dilution (purified)

Lane 1 : Jurkat cell lysate
Lane 2 : K562 cell lysate

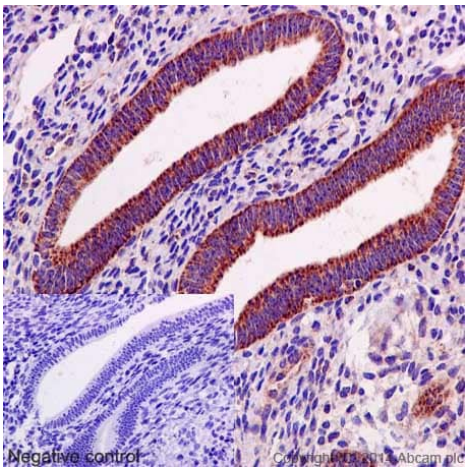
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Observed band size: 26 kDa

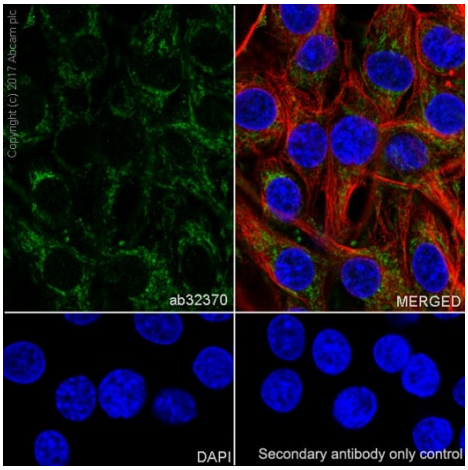
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



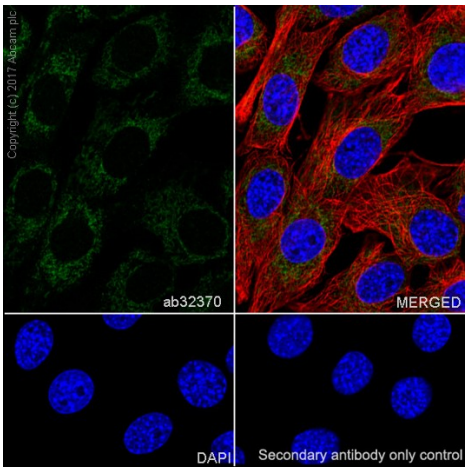
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bcl-XL antibody [E18] (ab32370)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human endometrium tissue labelling Bcl-XL with purified ab32370 at 1/2000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit HRP (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



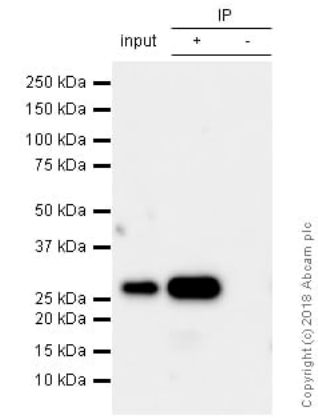
Immunocytochemistry/ Immunofluorescence - Anti-Bcl-XL antibody [E18] (ab32370)

Immunocytochemistry/ Immunofluorescence analysis of C6(Rat glial tumor glial cell) cells labeling Bcl-XL with purified ab32370 at 1/100 dilution (1.42 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 dilution (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunocytochemistry/ Immunofluorescence - Anti-Bcl-XL antibody [E18] (ab32370)

Immunocytochemistry/ Immunofluorescence analysis of NIH/3T3(Mouse embryonic fibroblast) cells labeling Bcl-XL with purified ab32370 at 1/100 dilution (1.42 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 dilution (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunoprecipitation - Anti-Bcl-XL antibody [E18] (ab32370)

ab32370 (purified) at 1/20 dilution immunoprecipitating Bcl-XL in NIH/3T3 whole cell lysate.

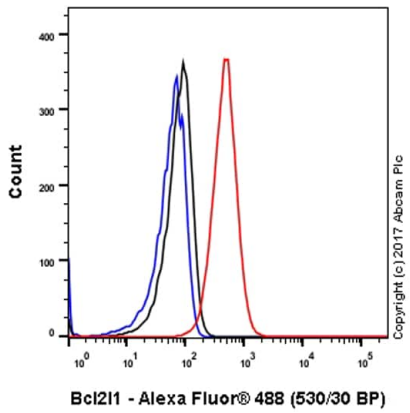
Lane 1 (input): NIH/3T3(Mouse embryonic fibroblast) whole cell lysate 10µg

Lane 2 (+): ab32370 & NIH/3T3 whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab32370 in NIH/3T3 whole cell lysate

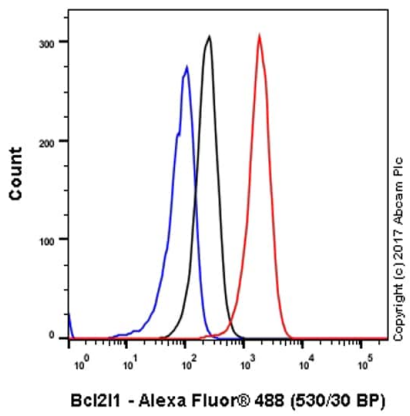
For western blotting, ab32370 at 1/500 dilution (0.28 µg/ml) and VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1/1000 dilution.

Blocking and diluting buffer: 5% NFDM /TBST .



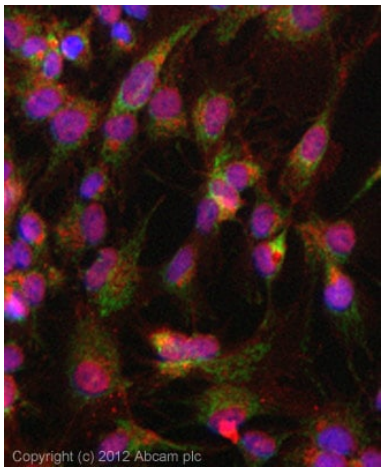
Flow Cytometry (Intracellular) - Anti-Bcl-XL antibody [E18] (ab32370)

Intracellular Flow Cytometry analysis of NIH/3T3 (Mouse embryonic fibroblast) cells labelling Bcl-XL with ab32370 at 1/20 dilution (7.1 µg/ml) (Red). Cells were fixed with 4% paraformaldehyde . Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (**ab172730**) (Black). Unlabeled control - Unlabelled cells (Blue).



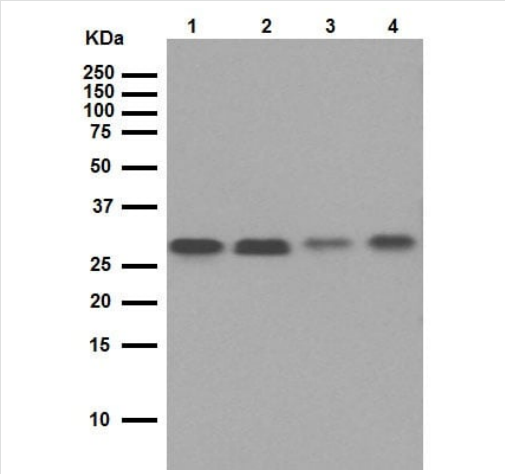
Flow Cytometry (Intracellular) - Anti-Bcl-XL antibody [E18] (ab32370)

Intracellular Flow Cytometry analysis of C6 (Rat glial tumor glial cell) cells labelling Bcl-XL with ab32370 at 1/20 dilution (7.1 µg/ml) (Red). Cells were fixed with 4% paraformaldehyde . Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (**ab172730**) (Black). Unlabeled control - Unlabelled cells (Blue).



Immunocytochemistry/ Immunofluorescence - Anti-Bcl-XL antibody [E18] (ab32370)

ICC/IF image of unpurified ab32370 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab32370, 1/100) overnight at +4°C. The secondary antibody (green) was **ab96899**, goat **anti-rabbit DyLight® 488** (IgG; H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Western blot - Anti-Bcl-XL antibody [E18] (ab32370)

All lanes : Anti-Bcl-XL antibody [E18] (ab32370) at 1/1000 dilution (purified)

Lane 1 : C6 cell lysate
Lane 2 : RAW264.7 cell lysate
Lane 3 : PC-12 cell lysate
Lane 4 : NIH/3T3 cell lysate

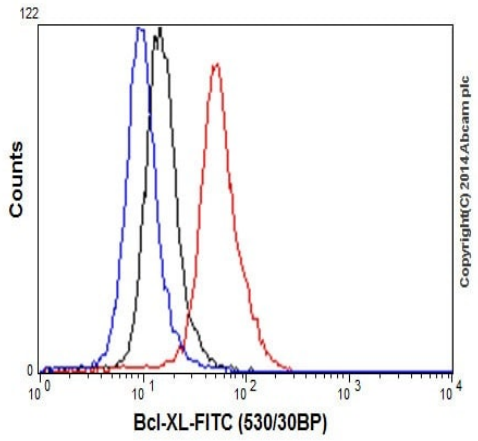
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Peroxidase-conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Observed band size: 26 kDa

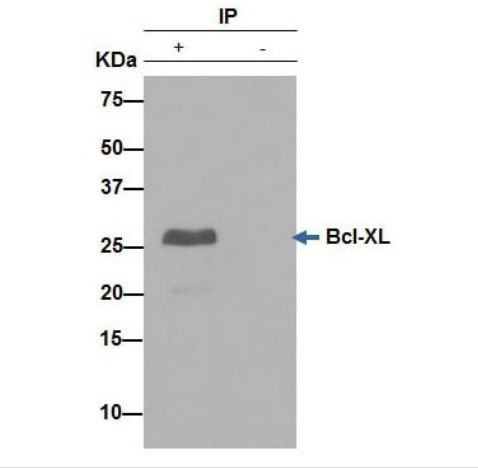
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Flow Cytometry (Intracellular) - Anti-Bcl-XL antibody [E18] (ab32370)

Intracellular Flow Cytometry analysis of Jurkat cells labelling Bcl-XL with purified ab32370 at 1/20 (red). Cells were fixed with 2% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/150) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.

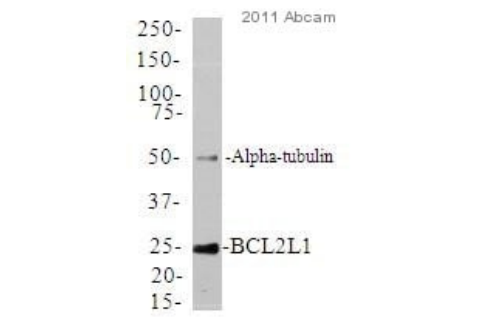


Immunoprecipitation - Anti-Bcl-XL antibody [E18] (ab32370)

ab32370 (purified) at 1/30 immunoprecipitating Bcl-XL in Jurkat cell lysate (Lane 1). Lane 2 - PBS. For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody (1/1500).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-Bcl-XL antibody [E18] (ab32370)

Image courtesy of an anonymous Abreview.

Anti-Bcl-XL antibody [E18] (ab32370) at 1/500 dilution (unpurified) + whole cell lysate prepared from a clinical sample of human breast cancer cells at 20 µg

Secondary

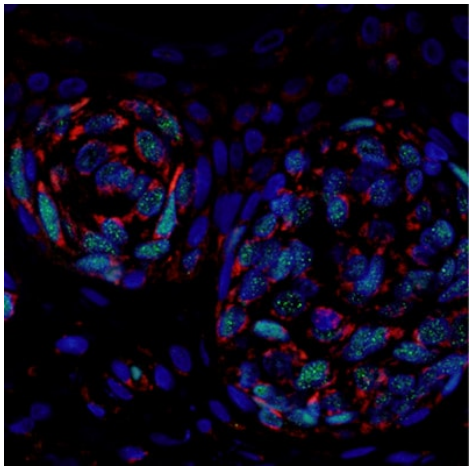
Goat anti-rabbit IgG-HRP at 1/1000 dilution

Developed using the ECL technique.

Observed band size: 26 kDa

Exposure time: 15 minutes

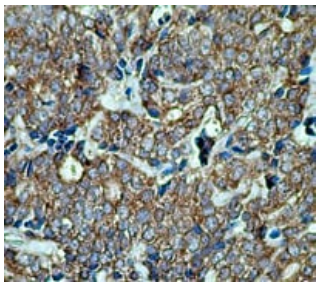
Patient recieved anthracycline and taxane neoadjuvant chemotherapy.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bcl-XL antibody [E18] (ab32370)

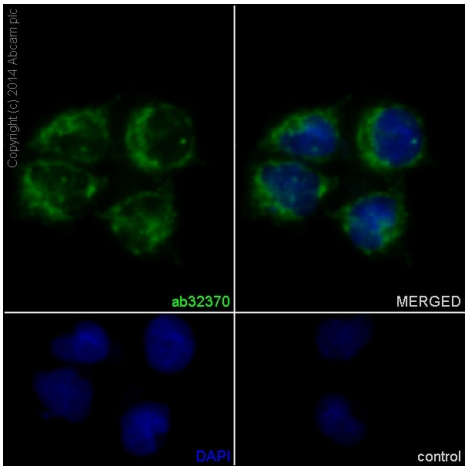
Image from Medic S & Ziman M, PLoS One. 2010 Apr 22;5(4):e9977. Fig 5.; doi:10.1371/journal.pone.0009977; April 22, 2010, PLoS ONE 5(4): e9977.

Immunohistochemistry of human primary melanoma, staining Bcl-XL (red) with unpurified ab32370.
Antigen retrieval was performed in EDTA/Tris buffer (pH 8) before being blocked with 10%NGS for one hour at room temperature. Samples were incubated with primary antibody (1/50) at room temperature for one hour. An AlexaFluor®-conjugated anti-rabbit IgG was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bcl-XL antibody [E18] (ab32370)

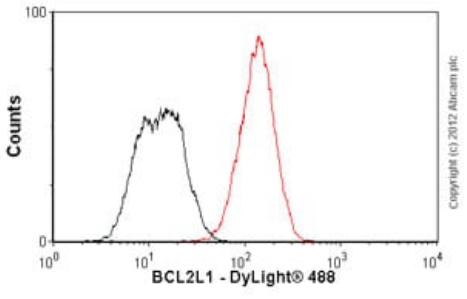
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human prostate carcinoma tissue labelling Bcl-XL with unpurified ab32370 at 1/50.



Immunocytochemistry/ Immunofluorescence - Anti-Bcl-XL antibody [E18] (ab32370)

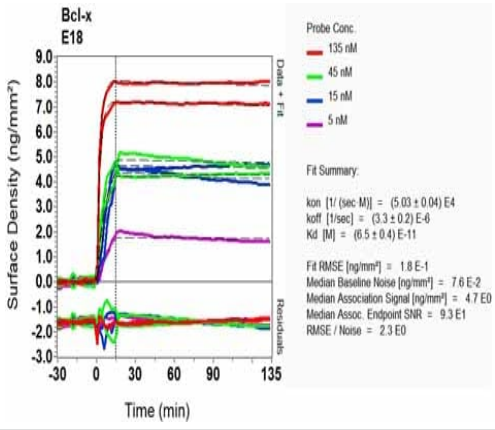
Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling Bcl-XL with purified ab32370 at 1/500. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, a goat anti-rabbit Alexa Fluor® 488 (IgG; 1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

Control: primary antibody (1/500) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).



Flow Cytometry (Intracellular) - Anti-Bcl-XL antibody [E18] (ab32370)

Overlay histogram showing DU145 cells stained with unpurified ab32370 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab32370, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was a goat anti-rabbit DyLight® 488 (IgG; H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

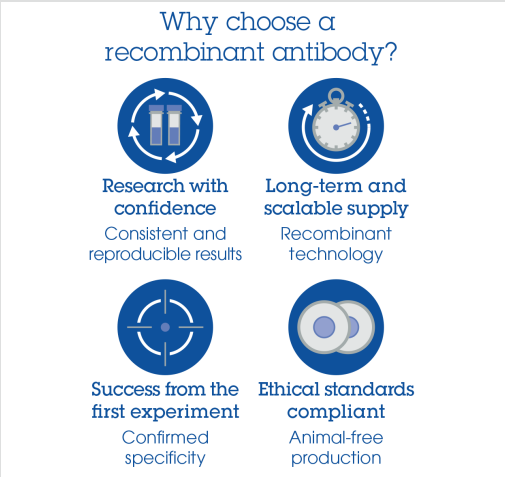


OI-RD Scanning - Anti-Bcl-XL antibody [E18] (ab32370)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Anti-Bcl-XL antibody [E18] (ab32370)

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