

Anti-CD3 zeta antibody [BL-336-1B2] ab243874

敲除验证 重组

7 图像

概述	
产品名称	Anti-CD3 zeta抗体[BL-336-1B2]
描述	兔单克隆抗体[BL-336-1B2] to CD3 zeta
宿主	Rabbit
经测试应用	适用于: WB, IHC-P, IP
种属反应性	与反应: Human
免疫原	Synthetic peptide within Human CD3 zeta aa 150-164 (C terminal). The exact sequence is proprietary. NP_932170.1 and Gene ID 919. Database link: P20963
阳性对照	WB: K562, Jurkat, HeLa, SR, HEK293T, HepG2 and MOLT4 whole cell lysate. IHC-P: Human tonsil tissue, human lung cancer tissue. IP: Jurkat whole cell lysate.
常规说明	This product is sold under License from Bethyl Laboratories, Inc.
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 long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.8 Preservative: 0.09% Sodium azide Constituents: 98% Borate buffered saline, 0.1% BSA
纯化说明	Recombinant antibody was purified from cell culture supernatant.
克隆	单克隆
克隆编号	BL-336-1B2
同种型	IgG
应用	

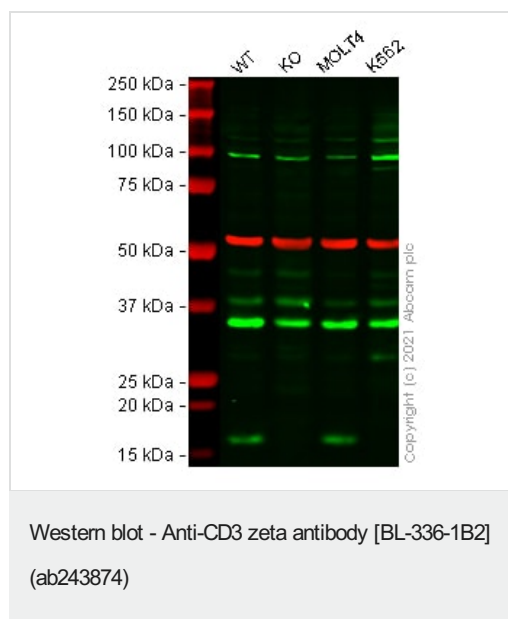
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000.
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
IP		Use at an assay dependent concentration. Use 20µl/mg lysate.

靶标

功能	Probable role in assembly and expression of the TCR complex as well as signal transduction upon antigen triggering.
疾病相关	Defects in CD247 are the cause of immunodeficiency due to defect in CD3-zeta (CD3ZID) [MIM:610163]. An immunological deficiency characterized by T-cells impaired immune response to alloantigens, tetanus toxoid and mitogens.
序列相似性	Belongs to the CD3Z/FCER1G family. Contains 3 ITAM domains.
结构域	The ITAM domains mediate interaction with SHB.
翻译后修饰	Phosphorylated on Tyr residues after T-cell receptor triggering.
细胞定位	Membrane.

图片



All lanes : Anti-CD3 zeta antibody [BL-336-1B2] (ab243874) at 1/1000 dilution

Lane 1 : Wild-type Jurkat cell lysate

Lane 2 : CD247 knockout Jurkat cell lysate

Lane 3 : MOLT-4 cell lysate

Lane 4 : K562 cell lysate

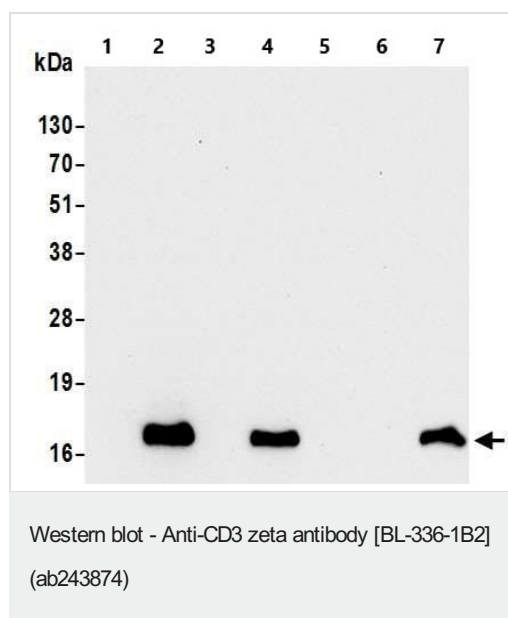
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Observed band size: 16 kDa

False colour image of Western blot: Anti-CD3 zeta antibody [BL-336-1B2] staining at 1/1000 dilution, shown in green; Mouse anti-

Alpha Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab243874 was shown to bind specifically to CD3 zeta. A band was observed at 16 kDa in wild-type Jurkat cell lysates with no signal observed at this size in CD247 knockout cell line [ab273856](#) (knockout cell lysate [ab273810](#)). To generate this image, wild-type and CD247 knockout Jurkat cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3% milk in TBS-0.1% Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye[®] 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye[®] 680RD) preabsorbed ([ab216776](#)) at 1/20000 dilution.



All lanes : Anti-CD3 zeta antibody [BL-336-1B2] (ab243874) at 1/1000 dilution

Lane 1 : K562 whole cell lysate

Lane 2 : Jurkat whole cell lysate

Lane 3 : HeLa whole cell lysate

Lane 4 : SR whole cell lysate

Lane 5 : HEK293T whole cell lysate

Lane 6 : HepG2 whole cell lysate

Lane 7 : MOLT4 whole cell lysate

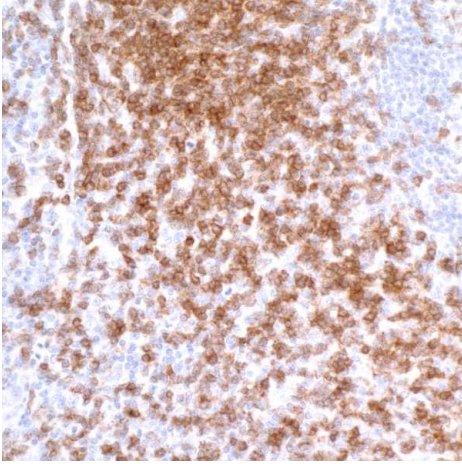
Lysates/proteins at 50 µg per lane.

Secondary

All lanes : HRP-conjugated goat anti-rabbit IgG

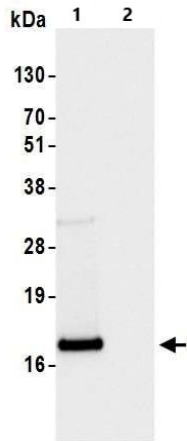
Exposure time: 10 seconds

Lysates prepared using NETN lysis buffer.



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human tonsil tissue labeling CD247/CD3Z with ab243874. HRP-conjugated goat anti-rabbit IgG was used as the secondary antibody, with DAB as substrate.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD3 zeta antibody [BL-336-1B2] (ab243874)



CD247/CD3Z was immunoprecipitated from 1mg of Jurkat whole cell lysate with ab243874 at 20 μ l/mg lysate. Western blot was performed from the immunoprecipitate using **ab264158** at a 1/1000 dilution.

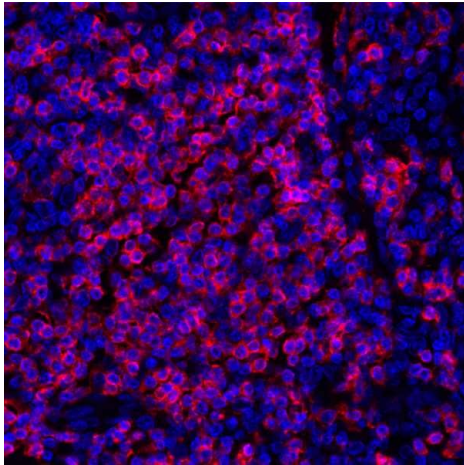
Lane 1: ab243874 IP in Jurkat whole cell lysate.

Lane 2: Control IgG.

Detection: Chemiluminescence.

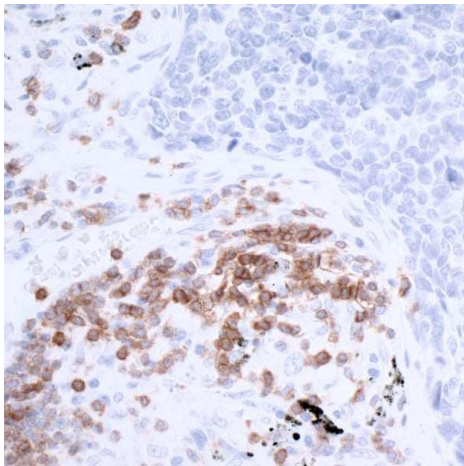
Lysate prepared using NETN lysis buffer.

Immunoprecipitation - Anti-CD3 zeta antibody [BL-336-1B2] (ab243874)



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human tonsil tissue, labeling CD247/CD3Z with ab243874. HRP-conjugated goat anti-rabbit IgG used as the secondary antibody. DAPI counterstain.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD3 zeta antibody [BL-336-1B2] (ab243874)



Immunohistochemical analysis of formalin-fixed, paraffin-embedded human lung cancer tissue labeling CD247/CD3Z with ab243874. HRP-conjugated goat anti-rabbit IgG was used as the secondary antibody, with DAB as the substrate.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD3 zeta antibody [BL-336-1B2] (ab243874)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-CD3 zeta antibody [BL-336-1B2] (ab243874)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors