abcam

Product datasheet

Anti-HMGB2 antibody [EPR6301] ab124670

敲除验证 重组 RabMAb

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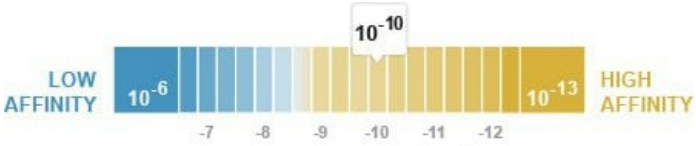
概述

产品名称	Anti-HMGB2抗体[EPR6301]
描述	兔单克隆抗体[EPR6301] to HMGB2
宿主	Rabbit
经测试应用	**适用于:** ICC/IF, WB, IHC-P
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide within Human HMGB2 (N terminal). The exact sequence is proprietary.
阳性对照	WB: HEK-293T, HAP1, K562, HeLa and PC12 cell lysates. ICC/IF: PC-12 cells. IHC-P: Human breast tissue.
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 -20°C. Stable for 12 months at -20°C.
解离常数 (K_D)	K_D = 6.03 x 10^{-10} M  **Learn more about K_D**
存储溶液	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture

	supernatant
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR6301
同种型	IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab124670于以下的经测试应用

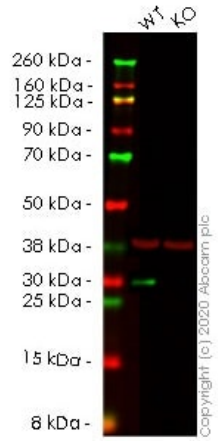
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		1/500.
WB	★★★★☆ (1)	1/10000 - 1/50000. Predicted molecular weight: 24 kDa.
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

靶标

功能	DNA binding proteins that associates with chromatin and has the ability to bend DNA. Binds preferentially single-stranded DNA. Involved in V(D)J recombination by acting as a cofactor of the RAG complex. Acts by stimulating cleavage and RAG protein binding at the 23 bp spacer of conserved recombination signal sequences (RSS).
序列相似性	Belongs to the HMGB family. Contains 2 HMG box DNA-binding domains.
细胞定位	Nucleus. Chromosome.

图片



Western blot - Anti-HMGB2 antibody [EPR6301] (ab124670)

All lanes : Anti-HMGB2 antibody [EPR6301] (ab124670) at 1/2000 dilution

Lane 1 : Wild-type HEK-293T cell lysate
Lane 2 : HMGB2 knockout HEK-293T cell lysate

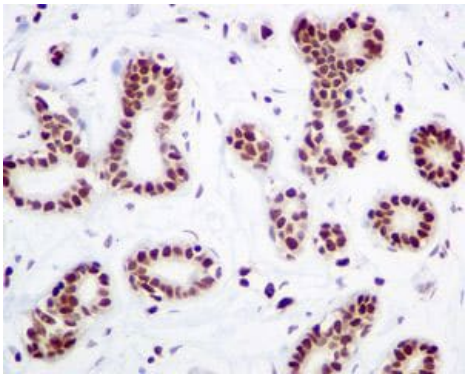
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 24 kDa
Observed band size: 24 kDa

Lanes 1- 2: Merged signal (red and green). Green - ab124670 observed at 24 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

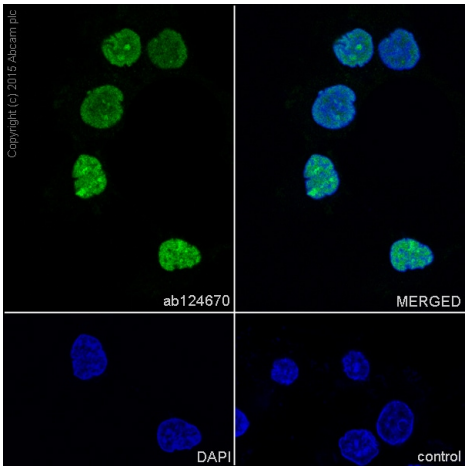
ab124670 was shown to react with HMGB2 in wild-type HEK-293T cells in western blot. Loss of signal was observed when knockout cell line **ab266358** (knockout cell lysate **ab257156**) was used. Wild-type HEK-293T and HMGB2 knockout HEK-293T cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab124670 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) overnight at 4°C at a 1 in 2000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HMGB2 antibody [EPR6301] (ab124670)

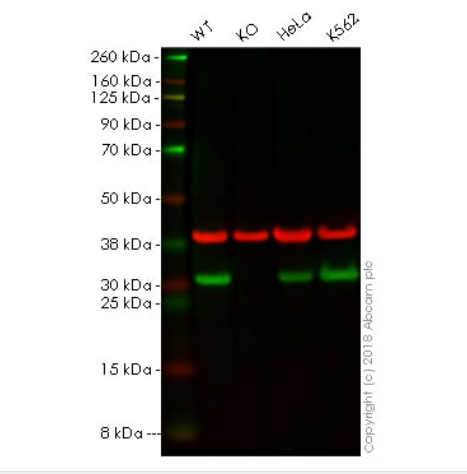
ab124670, at a 1/250 dilution, staining HMGB2 in paraffin embedded Human breast tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-HMGB2 antibody [EPR6301] (ab124670)

Immunocytochemistry/Immunofluorescence analysis of PC-12 cells labelling HMGB2 with ab124670 at 1/500. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody.
Control: PBS only.
Nuclear counter stain: DAPI.



Western blot - Anti-HMGB2 antibody [EPR6301] (ab124670)

All lanes : Anti-HMGB2 antibody [EPR6301] (ab124670) at 1/10000 dilution

Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : HMGB2 knockout HAP1 whole cell lysate
Lane 3 : HeLa whole cell lysate
Lane 4 : K562 whole cell lysate

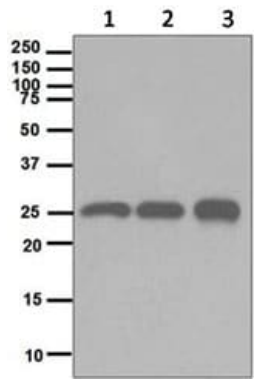
Lysates/proteins at 20 µg per lane.

Predicted band size: 24 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab124670 observed at 24 kDa. Red - loading control, **ab9484**, observed at 37

kDa.

ab124670 was shown to specifically react with HMGB2 in wild-type HAP1 cells as signal was lost in HMGB2 knockout cells. Wild-type and HMGB2 knockout samples were subjected to SDS-PAGE. Ab124670 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/10000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-HMGB2 antibody [EPR6301] (ab124670)

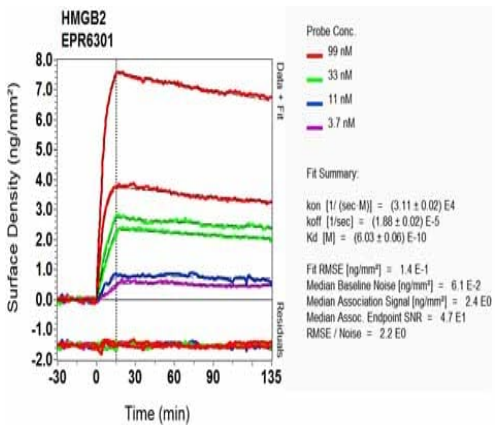
All lanes : Anti-HMGB2 antibody [EPR6301] (ab124670) at 1/10000 dilution

Lane 1 : K562 cell lysates
Lane 2 : HeLa cell lysates
Lane 3 : PC12 cell lysates

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat-anti-rabbit HRP at 1/2000 dilution

Predicted band size: 24 kDa

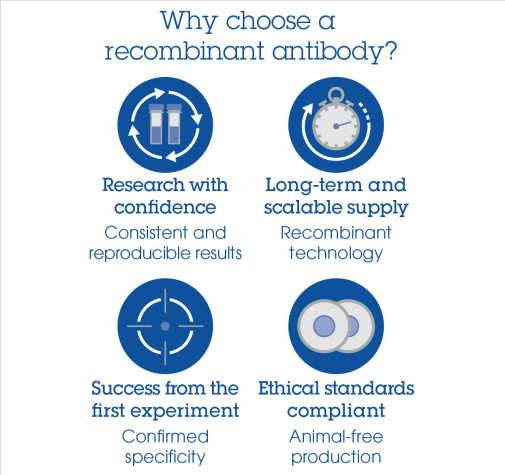


OI-RD Scanning - Anti-HMGB2 antibody [EPR6301] (ab124670)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Anti-HMGB2 antibody [EPR6301] (ab124670)

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