

Anti-HMGB2 antibody [EPR6301] ab124670

KO 評価済 リコンビナント RabMAb

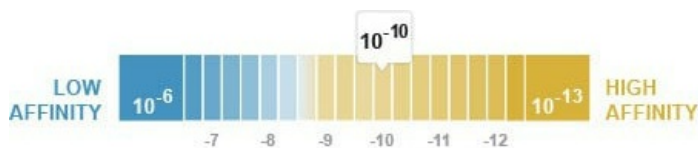
★★★★☆ 2 Abreviews 14 References 画像数 7

製品の概要

製品名	Anti-HMGB2 antibody [EPR6301]
製品の詳細	Rabbit monoclonal [EPR6301] to HMGB2
由来種	Rabbit
アプリケーション	適用あり: ICC/IF, WB, IHC-P
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide within Human HMGB2 (N terminal). The exact sequence is proprietary.
ポジティブ・コントロール	WB: HEK-293T, HAP1, K562, HeLa and PC12 cell lysates. ICC/IF: PC-12 cells. IHC-P: Human breast tissue.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
解離定数 (K _D 値)	K _D = 6.03 x 10 ⁻¹⁰ M



[Learn more about K_D](#)

バッファー	pH: 7.20
	Preservative: 0.05% Sodium azide
	Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture

	supernatant
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR6301
アイソタイプ	IgG

アプリケーション

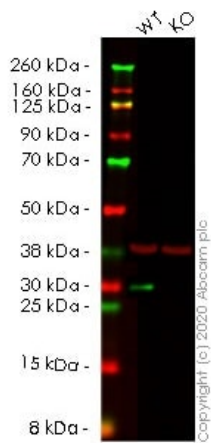
The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab124670の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
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.

ターゲット情報

機能	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).
配列類似性	Belongs to the HMGB family. Contains 2 HMG box DNA-binding domains.
細胞内局在	Nucleus. Chromosome.

画像



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.

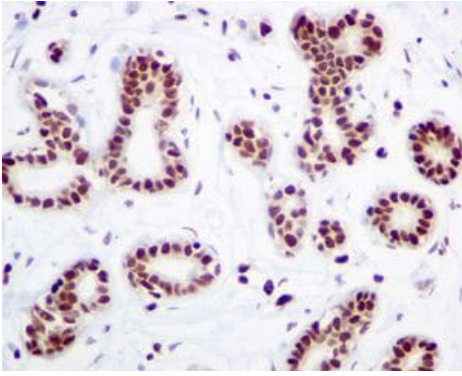
Performed under reducing conditions.

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.

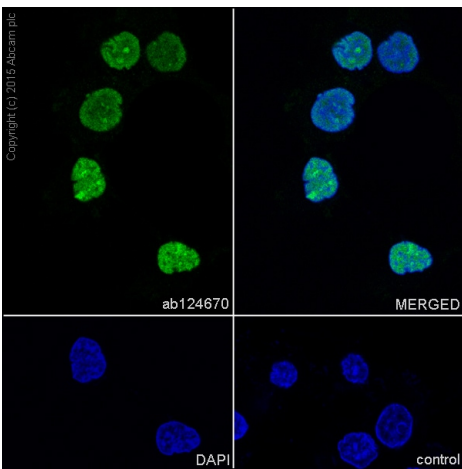
ab124670 was shown to react with HMGB2 in wild-type HEK-293T cells in western blot. Loss of signal was observed when knockout cell line [ab266358](#) (knockout cell lysate [ab257156](#)) was used. Wild-type HEK-293T and HMGB2 knockout HEK-293T cell lysates were subjected to SDS-PAGE. Membrane was blocked 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.



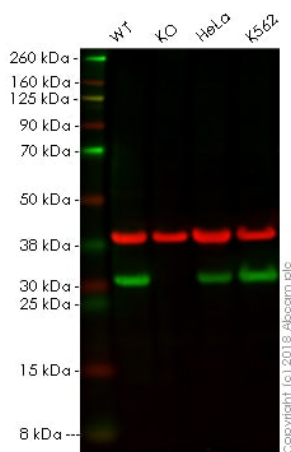
Immunocytochemistry/ Immunofluorescence - Anti-HMGB2 antibody [EPR6301] (ab124670)

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

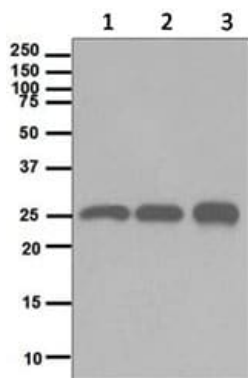
Lysates/proteins at 20 µg per lane.

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

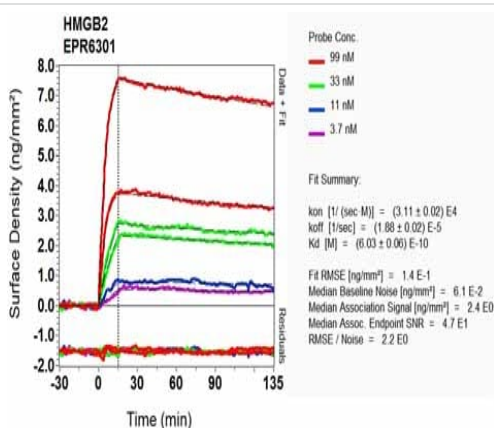
Lane 3 : PC12 cell lysates

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 24 kDa







O1-RD Scanning - Anti-HMGB2 antibody [EPR6301]
(ab124670)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-HMGB2 antibody [EPR6301] (ab124670)

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