abcam

Product datasheet

Anti- IKK beta antibody [EPR16628] ab178870





重组 RabMAb

★★★★★ 5 Abreviews 47 References 13 图像

概述

产品名称 Anti- IKK beta抗体[EPR16628]

描述 兔单克隆抗体[EPR16628] to IKK beta

宿主 Rabbit

经测试应用 适用于: IP, WB

不适用于: Flow Cyt (Intra) or ICC/IF

种属反应性 与反应: Mouse, Rat, Human

免疫原 Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.

阳性对照 WB: HeLa, Daudi, HL-60, A431, 293T, C6, Raw264.7 and NIH/3T3 whole cell lysates. Human

fetal kidney lysates. Mouse brain, Mouse kidney, Mouse spleen and Rat kidney lysates. IP: Jurkat

whole cell extract.

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

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.

Preservative: 0.01% Sodium azide 存储溶液

Constituents: 59% PBS, 40% Glycerol, 0.05% BSA

纯度 Protein A purified

克隆 单克隆 克隆编号 EPR16628

同种型 lgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab178870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
IP		1/40.
WB	**** (1)	1/1000. Detects a band of approximately 75, 87 kDa (predicted molecular weight: 85, 87 kDa).

应用说明 Is unsuitable for Flow Cyt (Intra) or ICC/IF.

靶标

功能 Acts as part of the IKK complex in the conventional pathway of NF-kappa-B activation and

phosphorylates inhibitors of NF-kappa-B thus leading to the dissociation of the inhibitor/NF-kappa-B complex and ultimately the degradation of the inhibitor. Also phosphorylates NCOA3.

组织特异性 Highly expressed in heart, placenta, skeletal muscle, kidney, pancreas, spleen, thymus, prostate,

testis and peripheral blood.

序列相似性 Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. I-kappa-B kinase

subfamily.

Contains 1 protein kinase domain.

翻译后修饰 Upon cytokine stimulation, phosphorylated on Ser-177 and Ser-181 by MEKK1 and/or

MAP3K14/NIK; which enhances activity. Once activated, autophosphorylates on the C-terminal serine cluster; which decreases activity and prevents prolonged activation of the inflammatory

response.

Acetylation of Thr-180 by Yersinia yopJ prevents phosphorylation and activation, thus blocking the

I-kappa-B pathway.

Ubiquitinated. Monoubiquitination involves TRIM21 that leads to inhibition of Tax-induced NF-

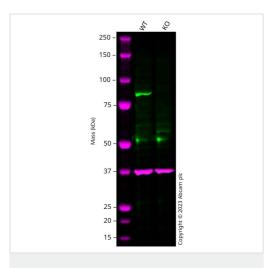
kappa-B signaling. According to PubMed:19675099, 'Ser-163' does not serve as a

monoubiquitination site. According to PubMed:16267042, ubiquitination on 'Ser-163' modulates phosphorylation on C-terminal serine residues. Monoubiquitination by TRIM21 is dirupted by

Yersinia yopJ.

细胞定位 Cytoplasm. Membrane raft. Colocalized with DPP4 in membrane rafts.

图片



Western blot - Anti- IKK beta antibody [EPR16628] (ab178870)

All lanes : Anti- IKK beta antibody [EPR16628] (ab178870) at 1/1000 dilution

Lane 1: Wild-type HeLa cell lysate

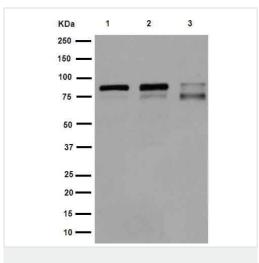
Lane 2: IKKa/b knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 85, 87 kDa **Observed band size:** 85 kDa

Western blot: Anti-IKKa/b antibody [EPR16628] (ab178870) staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (ab8245) loading control staining at 1/20000 dilution, shown in magenta. In Western blot, ab178870 was shown to bind specifically to IKKa/b. A band was observed at 85 kDa in wild-type HeLa cell lysates with no signal observed at this size in IKKa/b knockout cell line. To generate this image, wild-type and IKKa/b knockout HeLa 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 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti- IKK beta antibody [EPR16628] (ab178870)

All lanes : Anti- IKK beta antibody [EPR16628] (ab178870) at 1/1000 dilution

Lane 1 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysates

Lane 2 : Daudi (Human Burkitt's lymphoma cell line) whole cell lysates

Lane 3 : HL-60 (Human promyelocytic leukemia cells) whole cell lysates

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated antibody at 1/1000 dilution

Predicted band size: 85, 87 kDa **Observed band size:** 75,87 kDa

Blocking/dilution buffer: 5% NFDM/TBST.

ab178870 could recognize 3 isoforms of IKK beta with the MWs of 87kDa, 86kDa and 80kDa, respectively. It could also recognize IKK alpha.



Western blot - Anti- IKK beta antibody [EPR16628] (ab178870)

All lanes : Anti- IKK beta antibody [EPR16628] (ab178870) at 1/1000 dilution

Lane 1 : A431 (Human epidermoid carcinoma) whole cell lysatesLane 2 : 293T (Human epithelial cells from embryonic kidney)whole cell lysates

Lysates/proteins at 10 µg per lane.

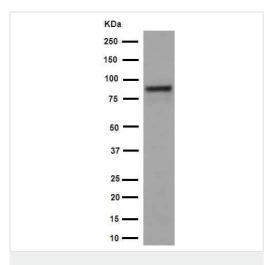
Secondary

All lanes : Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated antibody at 1/1000 dilution

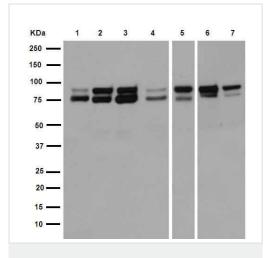
Predicted band size: 85, 87 kDa **Observed band size:** 75,87 kDa

Blocking/dilution buffer: 5% NFDM/TBST.

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Western blot - Anti- IKK beta antibody [EPR16628] (ab178870)



Western blot - Anti- IKK beta antibody [EPR16628] (ab178870)

Anti- IKK beta antibody [EPR16628] (ab178870) at 1/1000 dilution + Human fetal kidney lysates at 20 µg

Secondary

Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated antibody at 1/1000 dilution

Predicted band size: 85, 87 kDa **Observed band size:** 87 kDa

Blocking/dilution buffer: 5% NFDM/TBST.

All lanes : Anti- IKK beta antibody [EPR16628] (ab178870) at 1/1000 dilution

Lane 1: Mouse brain lysates

Lane 2: Mouse kidney lysates

Lane 3: Mouse spleen lysates

Lane 4: Rat kidney lysates

Lane 5: C6 (Rat glial tumor cells) whole cell lysates

Lane 6: RAW 264.7 (Mouse macrophage cells transformed with

Abelson murine leukemia virus) whole cell lysates

Lane 7: NIH/3T3 (Mouse embyro fibroblast cells) whole cell lysates

Lysates/proteins at 10 µg per lane.

Secondary

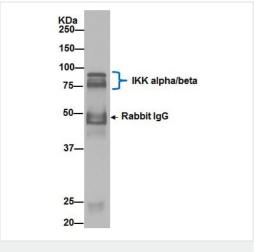
All lanes : Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated antibody at 1/1000 dilution

Predicted band size: 85, 87 kDa

Observed band size: 75,87 kDa

Blocking/dilution buffer: 5% NFDM/TBST.

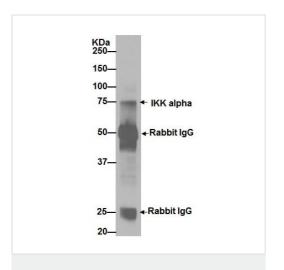
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Immunoprecipitation - Anti- IKK beta antibody [EPR16628] (ab178870)

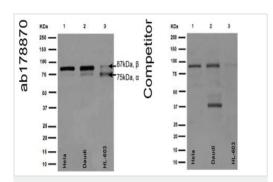
Immunoprecipitation of Jurkat (Human T cell leukemia cells from peripheral blood) whole cell extracts using ab178870 at 1/40 dilution. Western blot detection was performed using ab178870 at 1/1000 dilution followed by Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated secondary antibody at 1/1000 dilution. The blocking and diluting buffer was 5% NFDM/TBST.

ab178870 could recognize 3 isoforms of IKK beta with the MWs of 87kDa, 86kDa and 80kDa, respectively. It could also recognize IKK alpha.



Immunoprecipitation - Anti- IKK beta antibody [EPR16628] (ab178870)

Cross-Immunoprecipitation of Jurkat (Human T cell leukemia cells from peripheral blood) whole cell extracts using ab178870 at 1/40 dilution. Western blot detection was performed using **ab32041** (IKK alpha) at 1/1000 dilution followed by Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated secondary antibody at 1/1000 dilution. The blocking and diluting buffer was 5% NFDM/TBST.



Western blot - Anti- IKK beta antibody [EPR16628] (ab178870)

All lanes : Anti-IKK alpha + IKK beta [EPR16628] antibody (ab178870) at 1/1000 dilution, and a competitor's Anti-IKK alpha + IKK beta rabbit polyclonal antibody at 1/200 dilution

Lane 1 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysates

Lane 2 : Daudi (Human Burkitt's lymphoma cell line) whole cell lysates

Lane 3: HL-60 (Human promyelocytic leukemia cells) whole cell lysates

Secondary

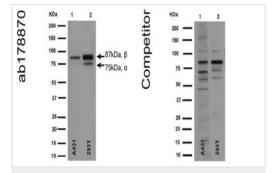
All lanes : Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated antibody at 1/1000 dilution

Predicted band size: 85, 87 kDa **Observed band size:** 75.87 kDa

This western blot image is a comparison of ab178870 against a competitor's leading rabbit polyclonal antibody.

Blocking/dilution buffer: 5% NFDM/TBST.

ab178870 could recognize 3 isoforms of IKK beta with the MWs of 87kDa, 86kDa and 80kDa, respectively. It could also recognize IKK alpha.



Western blot - Anti- IKK beta antibody [EPR16628] (ab178870)

All lanes : Anti-IKK alpha + IKK beta [EPR16628] antibody (ab178870) at 1/1000 dilution, and a competitor's Anti-IKK alpha + IKK beta rabbit polyclonal antibody at 1/200

Lane 1 : A431 (Human epidermoid carcinoma) whole cell lysatesLane 2 : 293T (Human epithelial cells from embryonic kidney)whole cell lysates

Secondary

All lanes : Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated antibody at 1/1000 dilution

Predicted band size: 85, 87 kDa Observed band size: 75,87 kDa

This western blot image is a comparison between ab178870 and a competitor's leading rabbit polyclonal antibody.

Blocking/dilution buffer: 5% NFDM/TBST.

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ab178870 Competitor

Western blot - Anti- IKK beta antibody [EPR16628] (ab178870)

Anti-IKK alpha + IKK beta [EPR16628] antibody (ab178870) at 1/1000 dilution, and a competitor's Anti-IKK alpha + IKK beta rabbit polyclonal antibody at 1/200 dilution + Human fetal kidney lysates

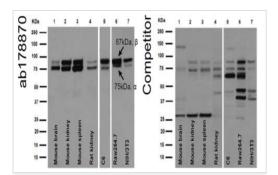
Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated antibody at 1/1000 dilution

Predicted band size: 85, 87 kDa Observed band size: 87 kDa

This western blot image is a comparison between ab178870 and a competitor's leading rabbit polyclonal antibody.

Blocking/dilution buffer: 5% NFDM/TBST.



Western blot - Anti- IKK beta antibody [EPR16628] (ab178870)

All lanes: Anti-IKK alpha + IKK beta [EPR16628] antibody (ab178870) at 1/1000 dilution, and a competitor's Anti-IKK alpha + IKK beta rabbit polyclonal antibody at 1/200 dilution

Lane 1: Mouse brain lysates

Lane 2: Mouse kidney lysates

Lane 3: Mouse spleen lysates

Lane 4: Rat kidney lysates

Lane 5: C6 (Rat glial tumor cells) whole cell lysates

Lane 6: RAW 264.7 (Mouse macrophage cells transformed with

Abelson murine leukemia virus) whole cell lysates

Lane 7: NIH/3T3 (Mouse embyro fibroblast cells) whole cell lysates

Secondary

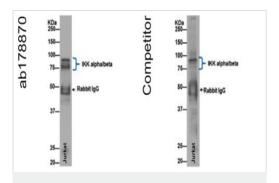
All lanes : Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated antibody at 1/1000 dilution

Predicted band size: 85, 87 kDa Observed band size: 75,87 kDa

This western blot image is a comparison between ab178870 and a competitor's leading rabbit polyclonal antibody.

Blocking/dilution buffer: 5% NFDM/TBST.

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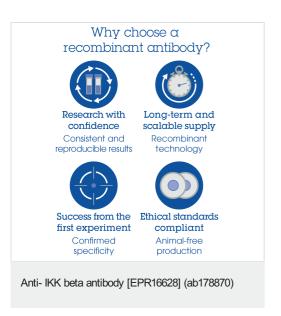
Immunoprecipitation - Anti- IKK beta antibody [EPR16628] (ab178870)

This immunoprecipation image is a comparison between ab178870 and a competitor's leading rabbit polyclonal antibody.

Immunoprecipitation of Jurkat (Human T cell leukemia cells from peripheral blood) whole cell extracts using ab178870 at 1/40 dilution. Western blot detection was performed using ab178870 at 1/1000 dilution followed by Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated secondary antibody at 1/1000 dilution. The blocking and diluting buffer was 5% NFDM/TBST.

Immunoprecipitation of Jurkat (Human T cell leukemia cells from peripheral blood) whole cell extracts using competitor's Anti-IKK alpha + IKK beta rabbit polyclonal antibody at 1/12 dilution. Western blot detection was performed using competitor antibody at 1/100 dilution followed by Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated secondary antibody at 1/100 dilution. The blocking and diluting buffer was 5% NFDM/TBST.

ab178870 could recognize 3 isoforms of IKK beta with the MWs of 87kDa, 86kDa and 80kDa, respectively. It could also recognize IKK alpha.



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