

Product datasheet

Anti-IKK beta (phospho Y188) antibody ab194519

★★★★☆ 2 Abreviews 3 References 1 Image

Overview

Product name	Anti-IKK beta (phospho Y188) antibody
Description	Rabbit polyclonal to IKK beta (phospho Y188)
Host species	Rabbit
Specificity	ab194519 detects endogenous levels of IKK beta only when phosphorylated at tyrosine 188.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human IKK beta (phospho Y188) conjugated to Keyhole Limpet Haemocyanin (KLH). Sequence: L-Q-Y(p)-L-A Database link: O14920
	 Run BLAST with  Run BLAST with
Positive control	COS7 cell extract.

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol, 0.87% Sodium chloride PBS without Mg ²⁺ and Ca ²⁺ .
Purity	Immunogen affinity purified
Purification notes	ab194519 was purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab194519** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆	1/500 - 1/1000. Predicted molecular weight: 87 kDa.

Target

Function

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.

Tissue specificity

Highly expressed in heart, placenta, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis and peripheral blood.

Sequence similarities

Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. I-kappa-B kinase subfamily.

Contains 1 protein kinase domain.

Post-translational modifications

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.

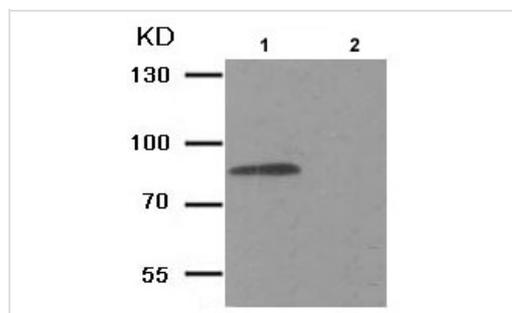
Acetylation of Thr-180 by Yersinia yopJ prevents phosphorylation and activation, thus blocking the I-kappa-B pathway.

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 disrupted by Yersinia yopJ.

Cellular localization

Cytoplasm. Membrane raft. Colocalized with DPP4 in membrane rafts.

Images



Western blot - Anti-IKK beta (phospho Y188) antibody (ab194519)

All lanes : Anti-IKK beta (phospho Y188) antibody (ab194519) at 1/500 dilution

Lane 1 : COS7 cell extract

Lane 2 : COS7 cell extract with antigen-specific peptide

Predicted band size: 87 kDa

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

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