

# Anti- IKK beta antibody [EPR16628] - BSA and Azide free ab240210

Recombinant RabMAb

4 Images

### Overview

Product name	Anti- IKK beta antibody [EPR16628] - BSA and Azide free
Description	Rabbit monoclonal [EPR16628] to IKK beta - BSA and Azide free
Host species	Rabbit
Tested applications	<b>Suitable for:</b> WB, IP <b>Unsuitable for:</b> Flow Cyt (Intra) or ICC/IF
Species reactivity	<b>Reacts with:</b> Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab240210 is the carrier-free version of <a href="#">ab178870</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR16628
Isotype	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab240210 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		Use at an assay dependent concentration. Detects a band of approximately 75, 87 kDa (predicted molecular weight: 85, 87 kDa).
IP		Use at an assay dependent concentration.

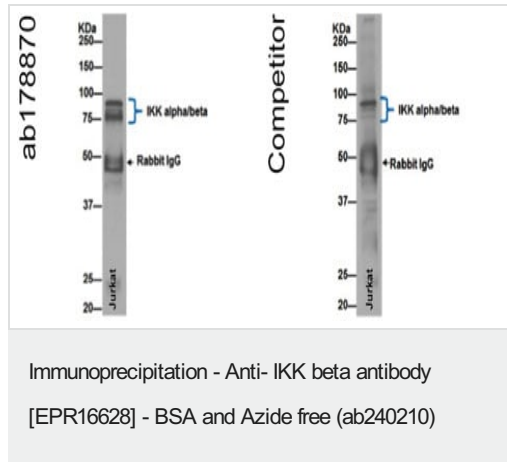
**Application notes** Is unsuitable for Flow Cyt (Intra) or ICC/IF.

## 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

**Cellular localization**

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

**Images**

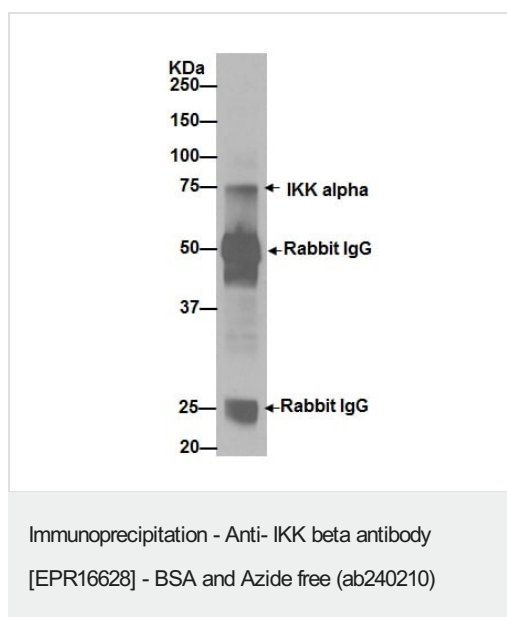
This immunoprecipitation image is a comparison between **ab178870** and a competitor's leading rabbit polyclonal antibody.

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.

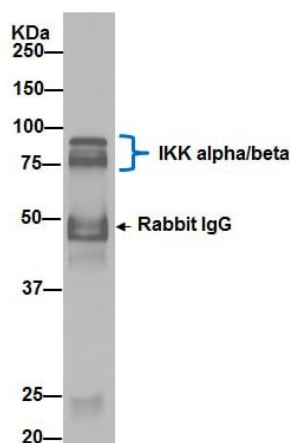
**ab178870** could recognize 3 isoforms of IKK beta with the MWs of 87kDa, 86kDa and 80kDa, respectively. It could also recognize IKK alpha.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab178870**).



Immunoprecipitation - Anti- IKK beta antibody  
[EPR16628] - BSA and Azide free (ab240210)

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.

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#### 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

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

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