



Catalog: OM281799

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# IKK- beta (phospho Tyr188) Antibody

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☐ 100ug

## Product profile

Product name	IKK- beta (phospho Tyr188) Antibody
Antibody Type	Primary Antibodies
Product description	<p>Serine kinase that plays an essential role in the NF-kappa-B signaling pathway which is activated by multiple stimuli such as inflammatory cytokines, bacterial or viral products, DNA damages or other cellular stresses. Acts as part of the canonical IKK complex in the conventional pathway of NF-kappa-B activation and phosphorylates inhibitors of NF-kappa-B on 2 critical serine residues. These modifications allow polyubiquitination of the inhibitors and subsequent degradation by the proteasome. In turn, free NF-kappa-B is translocated into the nucleus and activates the transcription of hundreds of genes involved in immune response, growth control, or protection against apoptosis. In addition to the NF-kappa-B inhibitors, phosphorylates several other components of the signaling pathway including NEMO/IKBKG, NF-kappa-B subunits RELA and NFkB1, as well as IKK-related kinases TBK1 and IKBKE. IKK-related kinase phosphorylations may prevent the overproduction of inflammatory mediators since they exert a negative regulation on canonical IKKs. Also phosphorylates other substrates including NCOA3, BCL10 and IRS1. Within the nucleus, acts as an adapter protein for NFkBIA degradation in UV-induced NF-kappa-B activation.<sup>1)</sup> Darwech I, Otero JE, Alhawagri MA, Abu-Amer Y (2010) J Biol Chem 285, 25522-30</p>
Immunogen	IKK- beta (phospho Tyr188) antibody was raised against a peptide sequence around phosphorylation site of tyrosine 188 (L-Q-Y (p)-L-A) derived from Human IKK- beta.

## Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB
Species Reactivity	Human Mouse Rat
Concentration	1 mg/ml
Purification	Affinity purified

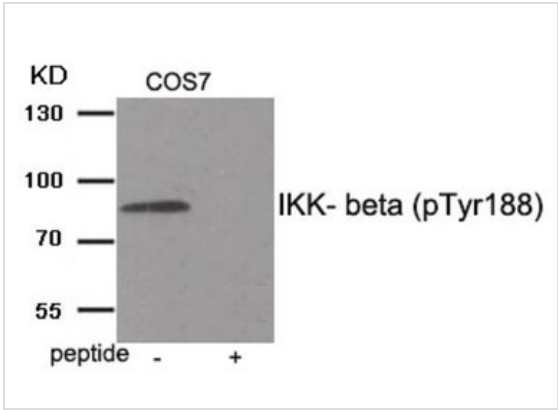
## Target Information

Gene Symbol	IKBKB
Alternative Names	I-kappa-B kinase 2, I-kappa-B-kinase beta, IKK-B, IKK2, Ikbkb
Molecular Weight(MW)	87 kDa
Tissue Specificity	The antibody detects endogenous level of IKK- beta only when phosphorylated at tyrosine 188.

## Database Links

Entrez Gene	3551
Protein Accession	NP_001177649.1

## Application



**Application**  
Western blot analysis of extracts from COS7 tissue using IKK- beta (Phospho-Tyr188) Antibody. The lane on the right is treated with the antigen-specific peptide.

Application Notes	Western Blot: 1:500~1:1000:
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## Additional Information

Form	Liquid
Storage Instructions	Store antibody at -20°C for up to one year.
Storage Buffer	Antibody supplied in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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