

IκB-β (phospho Ser23) Polyclonal Antibody

Catalog No :	YP0153
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	IκB β
Fields :	>>Chemokine signaling pathway;>>NOD-like receptor signaling pathway;>>RIG-I-like receptor signaling pathway;>>Cytosolic DNA-sensing pathway;>>Th1 and Th2 cell differentiation;>>Th17 cell differentiation;>>T cell receptor signaling pathway;>>B cell receptor signaling pathway;>>Neurotrophin signaling pathway;>>Adipocytokine signaling pathway;>>Pathogenic Escherichia coli infection;>>Shigellosis;>>Leishmaniasis;>>Toxoplasmosis;>>Measles;>>Influenza A;>>Epstein-Barr virus infection;>>Coronavirus disease - COVID-19;>>PD-L1 expression and PD-1 checkpoint pathway in cancer
Gene Name :	NFKB1B
Protein Name :	NF-kappa-B inhibitor beta
Human Gene Id :	4793
Human Swiss Prot No :	Q15653
Mouse Gene Id :	18036
Mouse Swiss Prot No :	Q60778
Rat Swiss Prot No :	Q9JIA3
Immunogen :	The antiserum was produced against synthesized peptide derived from human IκappaB-beta around the phosphorylation site of Ser23. AA range:8-57
Specificity :	Phospho-IκB-β (S23) Polyclonal Antibody detects endogenous levels of IκB-β protein only when phosphorylated at S23.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

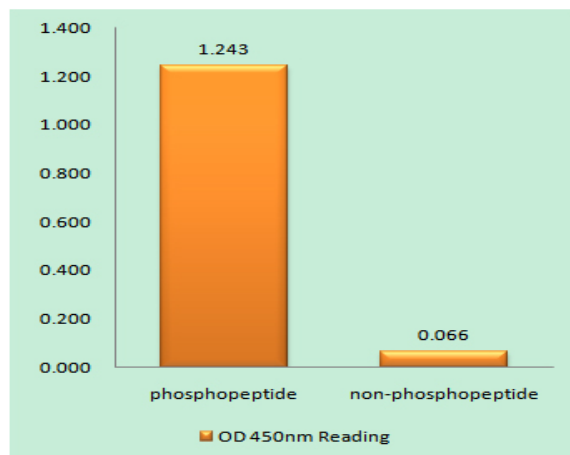
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	37kD
Cell Pathway :	Chemokine;NOD-like receptor;RIG-I-like receptor;Cytosolic DNA-sensing pathway;T_Cell_Receptor;B_Cell_Antigen;Neurotrophin;Adipocytokine;
Background :	The protein encoded by this gene belongs to the NF-kappa-B inhibitor family, which inhibit NF-kappa-B by complexing with, and trapping it in the cytoplasm. Phosphorylation of serine residues on these proteins by kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B, which translocates to the nucleus to function as a transcription factor. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jul 2011],
Function :	function:Inhibits NF-kappa-B by complexing with and trapping it in the cytoplasm. However, the unphosphorylated form resynthesized after cell stimulation is able to bind NF-kappa-B allowing its transport to the nucleus and protecting it to further IKBA-dependent inactivation. Association with inhibitor kappa B-interacting NKIRAS1 and NKIRAS2 prevent its phosphorylation rendering it more resistant to degradation, explaining its slower degradation.,PTM:Phosphorylated; followed by degradation. Interaction with NKIRAS1 and NKIRAS2 probably prevents phosphorylation.,similarity:Belongs to the NF-kappa-B inhibitor family.,similarity:Contains 6 ANK repeats.,subunit:Interacts with THRB (via ligand-binding domain). Interacts with RELA and REL. Interacts with COMMD1 and inhibitor kappa B-interacting Ras-like NKIRAS1 and NKIRAS2.,tissue specificity:Expressed in all tissues examined.,
Subcellular Location :	Cytoplasm . Nucleus .
Expression :	Expressed in all tissues examined.
Tag :	orthogonal
Sort :	8745

No4 :	1
Host :	Rabbit
Modifications :	Phospho

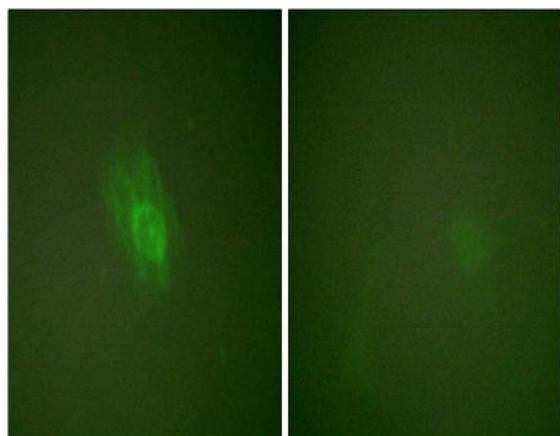
Products Images



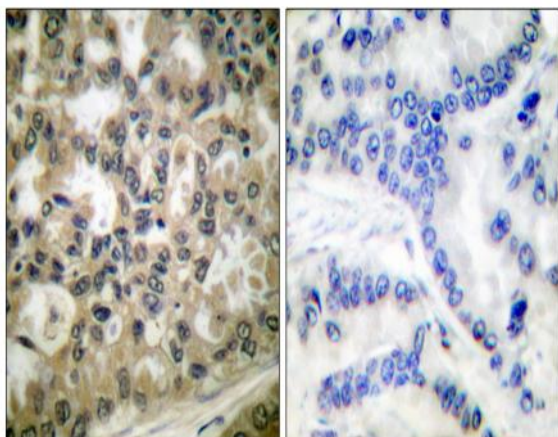
Western Blot analysis of various cells using Phospho-I κ B- β (S23) Polyclonal Antibody



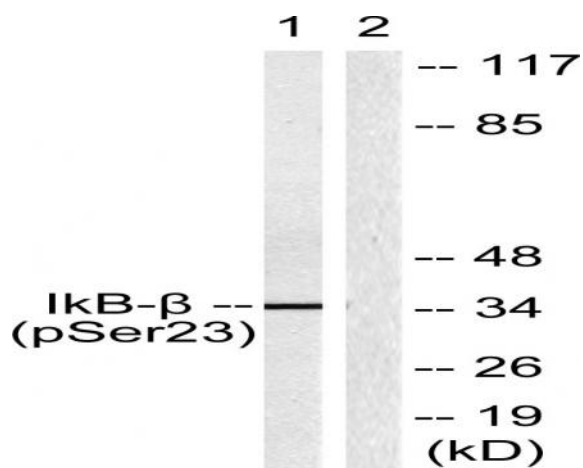
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using I κ B- β (Phospho-Ser23) Antibody



Immunofluorescence analysis of HeLa cells treated with TNF- α 20nM 15', using I κ B- β (Phospho-Ser23) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using IκappaB-beta (Phospho-Ser23) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from HeLa cells treated with TNF- α 20ng/ml 5', using IκappaB-beta (Phospho-Ser23) Antibody. The lane on the right is blocked with the phospho peptide.