

IKK α Monoclonal Antibody

Catalog No :	YM0359
Reactivity :	Human
Applications :	WB,ELISA
Gene Name :	CHUK
Protein Name :	Inhibitor of nuclear factor kappa-B kinase subunit alpha
Human Gene Id :	1147
Human Swiss Prot No :	O15111
Mouse Swiss Prot No :	Q60680
Immunogen :	Purified recombinant fragment of IKK α (aa500-590) expressed in E. Coli.
Specificity :	IKK α Monoclonal Antibody detects endogenous levels of IKK α protein.
Formulation :	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
Source :	Mouse
Dilution :	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Purification :	Affinity purification
Storage Stability :	-20°C/1 year
Cell Pathway :	T_Cell_Receptor, Insulin Receptor, B_Cell_Antigen, Stem cell pathway, Toll_Like, MAPK_ERK_Growth,MAPK_G_Protein, PI3K/Akt, NF_kappaB, Protein_Acetylation
P References :	1. J Biol Chem. 2004 Jan 16;279(3):1739-46. 2. Mol Cell Biol. 2003 Nov;23(22):8334-44. 3. Mol Cell. 2005 Apr 1;18(1):71-82.

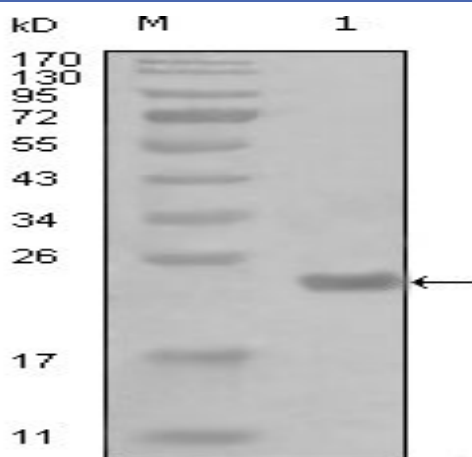
Background : conserved helix-loop-helix ubiquitous kinase(CHUK) Homo sapiens This gene encodes a member of the serine/threonine protein kinase family. The encoded protein, a component of a cytokine-activated protein complex that is an inhibitor of the essential transcription factor NF-kappa-B complex, phosphorylates sites that trigger the degradation of the inhibitor via the ubiquination pathway, thereby activating the transcription factor. [provided by RefSeq, Jul 2008],

Function : catalytic activity:ATP + [I-kappa-B protein] = ADP + [I-kappa-B phosphoprotein].,enzyme regulation:Activated when phosphorylated and inactivated when dephosphorylated.,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. As part of the non-canonical pathway of NF-kappa-B activation, the MAP3K14-activated CHUK/IKKA homodimer phosphorylates NFKB2/p100 associated with RelB, inducing its proteolytic processing to NFKB2/p52 and the formation of NF-kappa-B RelB-p52 complexes. Also phosphorylates NCOA3. Phosphorylates 'Ser-10' of histone H3 at NF-kappa-B-regulated promoters during inflammatory responses triggered by cytokines.,PTM:Phosphorylated by MAP3K14/NIK, AKT and to a lesser extent by MEKK

Subcellular Location : intracellular,nucleoplasm,cytoplasm,cytosol,IkappaB kinase complex,cytoplasmic side of plasma membrane,CD40 receptor complex,intracellular membrane-bounded organelle,

Expression : Brain,Cervix carcinoma,Heart,Lymph,T-cell,

Products Images



Western Blot analysis using IKK α Monoclonal Antibody against truncated Trx-IKK α recombinant protein (1).