

IKK α Monoclonal Antibody

Catalog No :	YM0361
Reactivity :	Human
Applications :	WB,IF/ICC,FCM,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 human IKK α 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. Immunofluorescence: 1/200 - 1/1000. Flow cytometry: 1/200 - 1/400. 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. Mol Cancer. 2010 Jan 5;9:1. 2. J Infect Dis. 2010 May 1;201(9):1371-80.

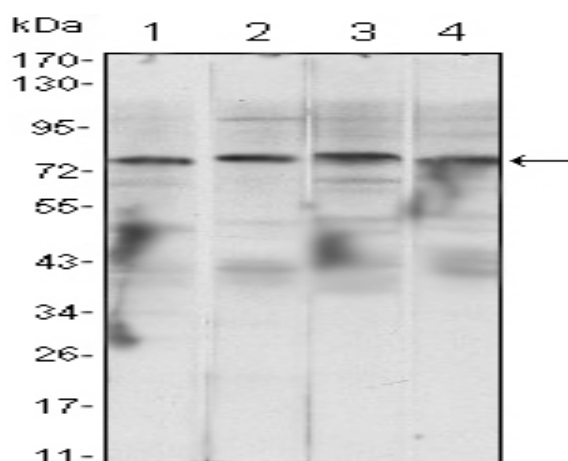
Background : conserved helix-loop-helix ubiquitous kinase(CHUK) Homo sapiens This gene encodes a member of the serine/threonine protein kinase family. The encoded protein, a component of a cytokine-activated protein complex that is an inhibitor of the essential transcription factor NF-kappa-B complex, 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

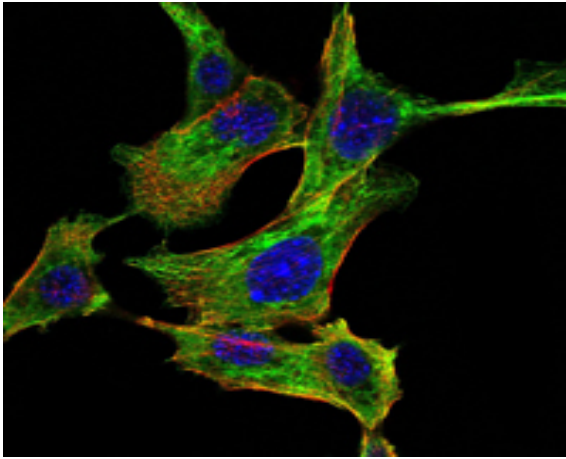
Subcellular Location : intracellular,nucleoplasm,cytoplasm,cytosol,IkappaB kinase complex,cytoplasmic side of plasma membrane,CD40 receptor complex,intracellular membrane-bounded organelle,

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

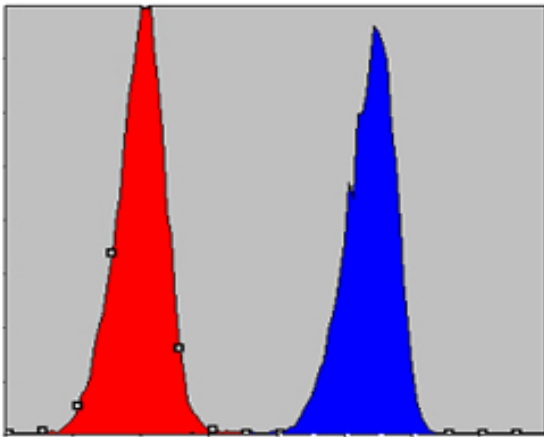
Products Images



Western Blot analysis using IKKα Monoclonal Antibody against Raji (1), Jurkat (2), THP-1 (3) and K562 (4) cell lysate.



Immunofluorescence analysis of NIH/3T3 cells using IKK α Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of A549 cells using IKK α Monoclonal Antibody (blue) and negative control (red).