

Product datasheet for TA336452

IKK alpha (CHUK) Mouse Monoclonal Antibody [Clone ID: 14A231]

Product data:

Product Type:	Primary Antibodies
Clone Name:	14A231
Applications:	FC, IF, IHC, WB
Recommend Dilution:	WB: 1 ug/ml, FC: (Intracellular): 0.25-0.5 ug/10 ⁶ cells, IF: 1:10, IHC-P: 5ug/ml, IP: 1-2 ug/ml
Reactivity:	Human, Mouse, Primate
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	This antibody was raised against a His-tagged full-length human IKK alpha protein.
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	0.5 mg/ml
Purification:	Protein G purified
Gene Name:	conserved helix-loop-helix ubiquitous kinase
Database Link:	NP_001269 Entrez Gene 12675 Mouse Entrez Gene 1147 Human
Background:	NF-kB (nuclear factor kB) is sequestered in the cytoplasm by IkB family of inhibitory proteins that mask the nuclear localization signal of NF-kB thereby preventing translocation of NF-kB to the nucleus. External stimuli such as tumor necrosis factor or other cytokines results in phosphorylation and degradation of IkB releasing NF-kB dimers. NF-kB dimer subsequently translocates to the nucleus and activates target genes. Synthesis of IkbA is autoregulated. IkB proteins are phosphorylated by Ikb kinase complex consisting of at least three proteins, IKK1/a, IKK2/b, and IKK3/g. In vitro, IKK1/a and IKK2/b can form homo- and heterodimers that can phosphorylate IkbA at the regulatory serine residues directly. IKK1/a and IKK2/b are phosphorylated by NF-kB-inducing kinase (NIK) and MAP kinase kinase kinase-1 (MEKK1), respectively. Targeted disruption of IKK1/a gene in mice results in skin and limb abnormalities and death of newborns.
Synonyms:	IKBKA; IKK-alpha; IKK1; IKKA; NFKBIKA; TCF16
Note:	Use in Flow Intracellular reported in scientific literature (PMID 24804954)

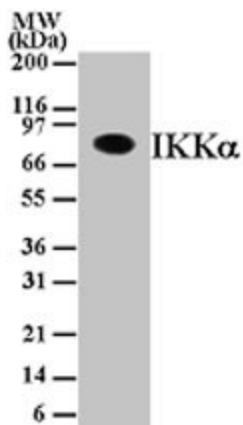


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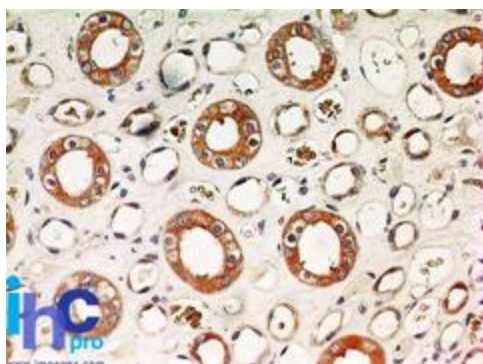
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, MAPK signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

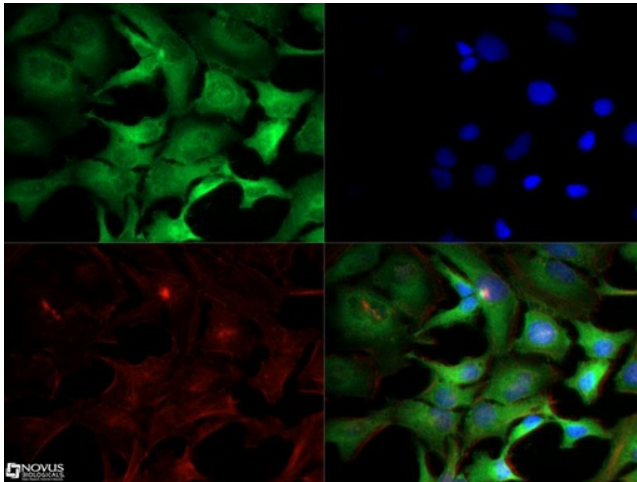
Product images:



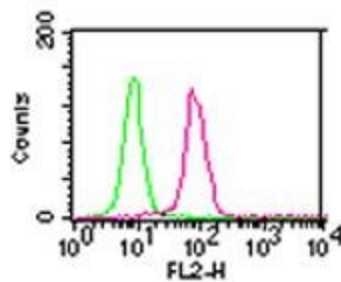
Western Blot: IKK alpha Antibody (14A231) [TA336452] - analysis of IKK alpha in Daudi cell lysate using IKK alpha antibody at 1 ug/ml.



Immunohistochemistry-Paraffin: IKK alpha Antibody (14A231) [TA336452] - Formalin-fixed, paraffin-embedded human kidney (IMH-343) stained with IKK alpha antibody at 5 ug/ml. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM



Immunocytochemistry/Immunofluorescence: IKK alpha Antibody (14A231) [TA336452] - IKK alpha antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). An antibody dilutio



Flow Cytometry: IKK alpha Antibody (14A231) [TA336452] - Intracellular staining of HEK293 cells using 0.5 ug of IKK alpha antibody. Green histogram represents the isotype control antibody, red represents the IKK alpha antibody. Intracellular flow kit was