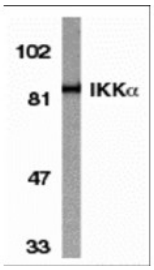
ProSci Incorporated
12170 Flint Place
Poway, CA 92064

Toll Free: +1 (888) 513 9525
Local: +1 (858) 513 2638
Fax: +1 (858) 513 2692

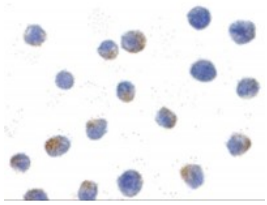
techsupport@prosci-inc.com
prosci-inc.com

IKK alpha Antibody

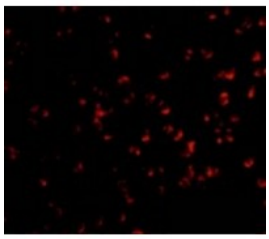
Cat. No.: 2025



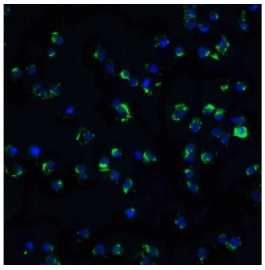
Western blot analysis of IKK alpha in HeLa whole cell lysate with IKK alpha antibody at 1:1000 dilution.



Immunocytochemistry of IKK alpha in Jurkat cells with IKK alpha antibody at 1ug/mL.

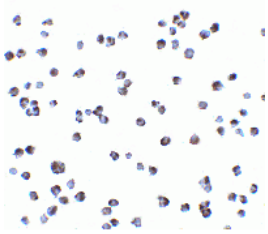


Immunofluorescence of IKK alpha in Jurkat cells with IKK alpha antibody at 10 ug/mL.



Immunofluorescence of IKKa in Jurkat cells with IKK alpha antibody at 20 ug/mL.

Green: IKK alpha Antibody (2025)
Blue: DAPI staining



Immunocytochemistry of IKKa in Jurkat cells with IKK alpha antibody at 2 ug/mL.

ΨSPECIFICATIONS

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Bovine: (94%), Mouse: (79%)
IMMUNOGEN:	IKK alpha antibody was raised against a 19 amino acid peptide near the carboxy terminus of human IKK alpha. The immunogen is located within the last 50 amino acids of IKK alpha.
TESTED APPLICATIONS:	ELISA, ICC, IF, WB
APPLICATIONS:	IKK alpha can be used for detection of IKK alpha by Western blot at 1 ug/mL. An 85 kDa band should be detected. Antibody can also be used for immunocytochemistry starting at 1 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
SPECIFICITY:	Antibody has no cross response to IKKb or IKKg.
POSITIVE CONTROL:	1) Cat. No. 1201 - HeLa Cell Lysate
	2) Cat. No. 1205 - Jurkat Cell Lysate
	3) Cat. No. 17-005 - Jurkat Cell Slide
PREDICTED MOLECULAR WEIGHT:	85 kDa

ΨADVANCED VALIDATION

VALIDATION:	**Overexpression validation** (Figure 8): ASC expression detected by anit-ASC antibodies (**2287**) was shown in ASC transfected 293T cells, but not in WT 293T cells.

ΨPROPERTIES

PURIFICATION:	IKK alpha Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	IKK alpha Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/ml
STORAGE CONDITIONS:	IKK alpha antibody can be stored at 4˚C for three months and -20˚C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

ΨADDITIONAL INFO

OFFICIAL SYMBOL:	CHUK
ALTERNATE NAMES:	IKK alpha Antibody: IKK1, IKKA, IKBKA, TCF16, NFKBIKA, IKK-alpha, Inhibitor of nuclear factor kappa-B kinase subunit alpha, Conserved helix-loop-helix ubiquitous kinase, I-kappa-B kinase alpha
ACCESSION NO.:	AF009225
PROTEIN GI NO.:	2327068
GENE ID:	1147
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

ΨBACKGROUND AND REFERENCES

BACKGROUND:	IKK alpha Antibody: Nuclear factor kappa B (NF-κB) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF-κB mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNFa, and bacteria product LPS. NF-κB is associated with IκB proteins in the cell cytoplasm, which inhibit NF-κB activity. The long-sought IκB kinase (IKK), which phosphorylates IκB, and mediates IκB degradation and NF-κB activation, was recently identified by several laboratories. IKK is a serine protein kinase, and the IKK complex contains alpha and beta subunits (IKKα and IKKβ). IKKα and IKKβ interact with each other and both are essential for the NF-κB activation. IKKα specifically phosphorylates IκB-alpha. IKKα is expressed in variety of human tissues.
REFERENCES:	1) DiDonato JA, Hayakawa M, Rothwarf DM, Zandi E, Karin M. A cytokine-responsive IκB kinase that activates the transcription factor NF-κB. Nature 1997;388:548-54
	2) Regnier CH, Song HY, Gao X, Goeddel DV, Cao Z, Rothe M. Identification and characterization of an IκB kinase. Cell 1997;90:373-83
	3) Zandi E, Rothwarf DM, Delhase M, Hayakawa M, Karin M. The IκB kinase complex (IKK) contains two kinase subunits, IKKα and IKKβ, necessary for IκB phosphorylation and NF-κB activation. Cell 1997;91:243-52
	4) Woronicz JD, Gao X, Cao Z, Rothe M, Goeddel DY. IκB kinase-β: NF-κB activation and complex formation with IκB kinase-α and NIK. Science 1997;278:866-9