

IKK alpha Antibody

Catalog # ASC10042

Product Information

Application WB, IF, ICC, E **Primary Accession** 015111

Other Accession AF009225, 2327068

Reactivity Human
Host Rabbit
Clonality Polyclonal
Isotype IgG
Calculated MW 85 KDa

Conjugate Unconjugated

Application Notes IKK alpha can be used for detection of IKK alpha by Western blot at 1 \(\text{Ig/mL} \).

An 85 kDa band should be detected. Antibody can also be used for

immunocytochemistry starting at 1 ½/mL. For immunofluorescence start at

20 □g/mL.

Additional Information

Gene ID 1147

Other 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, conserved helix-loop-helix

ubiquitous kinase

Target/Specificity CHUK; Antibody has no cross response to IKKb or IKKg.

Reconstitution & Storage 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.

PrecautionsIKK alpha Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

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 (IKK α and IKK β). IKK α and IKK β interact with each other and both are essential for the NF- κ B activation. IKK α specifically phosphorylates IkB-alpha. IKK α is expressed in variety of human tissues.

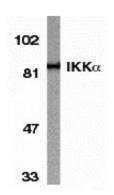
References

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

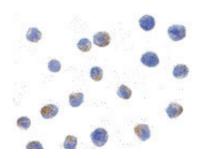
Regnier CH, Song HY, Gao X, Goeddel DV, Cao Z, Rothe M. Identification and characterization of an IκB kinase. Cell 1997;90:373-83

Zandi E, Rothwarf DM, Delhase M, Hayakawa M, Karin M. The I κ B kinase complex (IKK) contains two kinase subunits, IKK α and IKK β , necessary for I κ B phosphorylation and NF- κ B activation. Cell 1997;91:243-52 Woronicz JD, Gao X, Cao Z, Rothe M, Goeddel DY. I κ B kinase- β : NF- κ B activation and complex formation with I κ B kinase- α and NIK. Science 1997;278:866-9

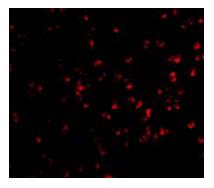
Images



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 1 μ g/mL.



Immunofluorescence of IKK alpha in Jurkat cells with IKK alpha antibody at 10 $\mu g/mL$.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.