

## IKK alpha Antibody

Catalog No: #24043

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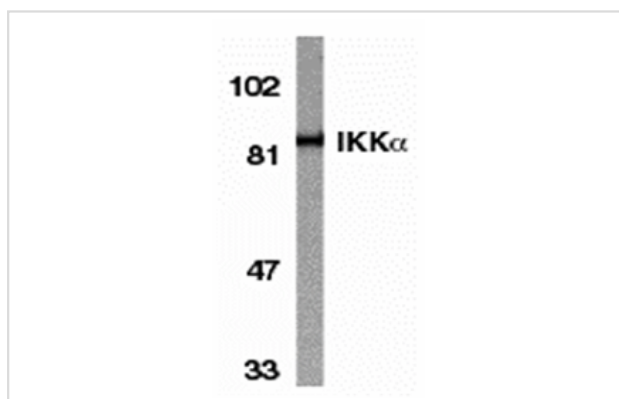
## Description

|                       |   |
|-----------------------|---|
| Product Name          | IKK alpha Antibody  |
| Host Species          | Rabbit  |
| Clonality             | Polyclonal  |
| Purification          | Affinity chromatography purified via peptide column   |
| Applications          | E WB ICC  |
| Species Reactivity    | Hu  |
| Specificity           | Antibody has no cross response to IKKb or IKKg.   |
| Immunogen Type        | Peptide   |
| Immunogen Description | Raised against a peptide corresponding to amino acids 716 to 734 of human IKK alpha, which differs from corresponding murine sequence by four amino acids.                                      |
| Target Name           | IKK alpha   |
| Other Names           | IKKa, IKK-1   |
| Accession No.         | AF009225  |
| Formulation           | Supplied in PBS containing 0.02% sodium azide.  |
| Storage               | Can be stored at -20°C, stable for 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. |

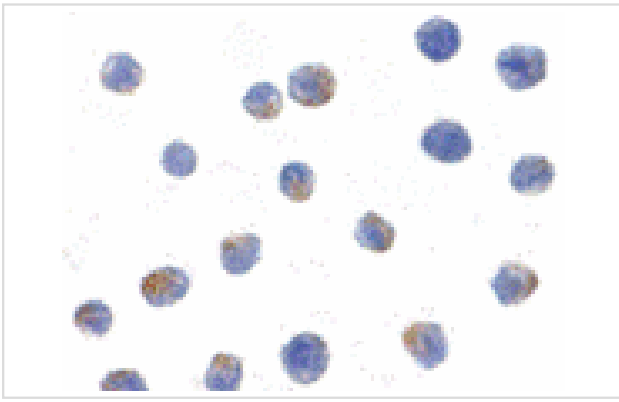
## Application Details

Predicted MW: 85 kd

## 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 1ug/mL.

## Background

Nuclear factor kappa B (NF- $\kappa$ B) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF- $\kappa$ B mediates the expression of a great variety of genes in response to extracellular stimuli including IL-1, TNF $\alpha$ , and bacteria product LPS. NF- $\kappa$ B is associated with I $\kappa$ B proteins in the cell cytoplasm, which inhibit NF- $\kappa$ B activity. The long-sought I $\kappa$ B kinase (IKK), which phosphorylates I $\kappa$ B, and mediates I $\kappa$ B degradation and NF- $\kappa$ B activation, was recently identified by several laboratories. IKK is a serine protein kinase, and the IKK complex contains alpha and beta subunits (IKK $\alpha$  and IKK $\beta$ ). IKK $\alpha$  and IKK $\beta$  interact with each other and both are essential for the NF- $\kappa$ B activation. IKK $\alpha$  specifically phosphorylates I $\kappa$ B-alpha. IKK $\alpha$  is expressed in variety of human tissues.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.