

## CHUK Antibody

Catalog No: #32579

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## Description

Product Name	CHUK Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB IHC IF IP
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total CHUK protein.
Immunogen Type	Peptide
Immunogen Description	A synthetic peptide of human CHUK.
Target Name	CHUK
Other Names	CHUK; IKBKA; IKK-alpha; IKK1; IKKA
Accession No.	Swiss-Prot:O15111NCBI Gene ID:1147
SDS-PAGE MW	85KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

## Application Details

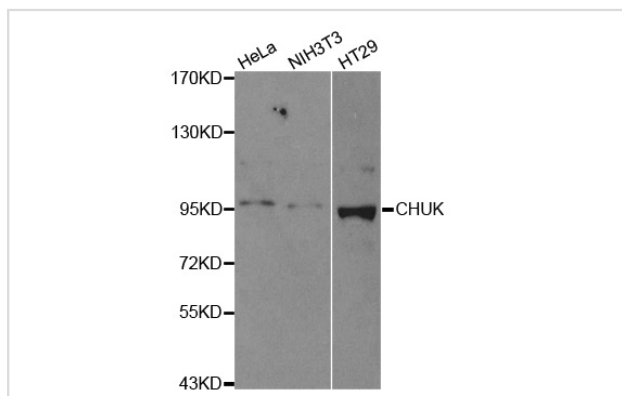
Western blotting: 1:500 - 1:2000

Immunohistochemistry: 1:50 - 1:100

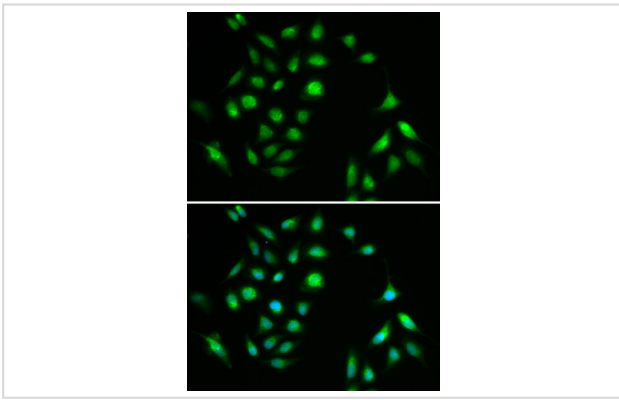
Immunofluorescence: 1:50 - 1:200

Immunoprecipitation: 1:20 - 1:100

## Images



Western blot analysis of extracts of various cell lines, using CHUK antibody.



Immunofluorescence analysis of A549 cell using CHUK antibody. Blue: DAPI for nuclear staining.

## Background

The NF- $\kappa$ B/Rel transcription factors are present in the cytosol in an inactive state, complexed with the inhibitory I $\kappa$ B proteins (1-3). Most agents that activate NF- $\kappa$ B do so through a common pathway based on phosphorylation-induced, proteasome-mediated degradation of I $\kappa$ B (3-7). The key regulatory step in this pathway involves activation of a high molecular weight I $\kappa$ B kinase (IKK) complex whose catalysis is generally carried out by three tightly associated IKK subunits. IKK $\alpha$  and IKK $\beta$  serve as the catalytic subunits of the kinase and IKK $\gamma$  serves as the regulatory subunit (8,9). Activation of IKK depends upon phosphorylation at Ser177 and Ser181 in the activation loop of IKK $\beta$  (Ser176 and Ser180 in IKK $\alpha$ ), which causes conformational changes, resulting in kinase activation (10-13).

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