

Datasheet for ABIN3043812

## anti-IKK alpha antibody (AA 411-745)



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### 3 Images

#### Overview

Quantity:	100 µg
Target:	IKK alpha (CHUK)
Binding Specificity:	AA 411-745
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IKK alpha antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

#### Product Details

Purpose:	Rabbit IgG polyclonal antibody for Inhibitor of nuclear factor kappa-B kinase subunit alpha(CHUK) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human IKK alpha recombinant protein (Position: V411-E745). Human IKK alpha shares 98% amino acid (aa) sequence identity with mouse IKK alpha.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Inhibitor of nuclear factor kappa-B kinase subunit alpha(CHUK) detection. Tested with WB, IHC-P in Human,Mouse,Rat.</p> <p>Gene Name: conserved helix-loop-helix ubiquitous kinase</p> <p>Protein Name: Inhibitor of nuclear factor kappa-B kinase subunit alpha</p>
Purification:	Immunogen affinity purified.

# Target Details

Target:	IKK alpha (CHUK)
Alternative Name:	CHUK ( <a href="#">CHUK Products</a> )
Background:	<p>IKKA, also known as conserved helix-loop-helix ubiquitous kinase (CHUK) or IKBKA, is a protein kinase that in humans is encoded by the CHUK gene. It is mapped to 10q24.31. This gene encodes a member of the serine/threonine protein kinase family. The encoded protein, a component of a cytokine-activated protein complex that is an inhibitor of the essential transcription factor NF-kappa-B complex, phosphorylates sites that trigger the degradation of the inhibitor via the ubiquination pathway, thereby activating the transcription factor. IKKA is part of the Ikb kinase complex that plays an important role in regulating the NF-κB transcription factor. However, IKKA also has many additional cellular targets, and is thought to function independently of the NF-κB pathway to regulate epidermal differentiation.</p> <p>Synonyms: <a href="#">chuk antibody</a> <a href="#">CHUK1 antibody</a> <a href="#">Conserved Helix Loop Helix Ubiquitous Kinase antibody</a> <a href="#">Conserved helix loop ubiquitous kinase antibody</a> <a href="#">Conserved helix-loop-helix ubiquitous kinase antibody</a> <a href="#">I Kappa B Kinase 1 antibody</a> <a href="#">I Kappa B Kinase Alpha antibody</a> <a href="#">I-kappa-B kinase 1 antibody</a> <a href="#">I-kappa-B kinase alpha antibody</a> <a href="#">IkappaB kinase antibody</a> <a href="#">Ikb kinase alpha subunit antibody</a> <a href="#">IKBKA antibody</a> <a href="#">IKK 1 antibody</a> <a href="#">IKK A antibody</a> <a href="#">IKK a kinase antibody</a> <a href="#">IKK-A antibody</a> <a href="#">IKK-alpha antibody</a> <a href="#">IKK1 antibody</a> <a href="#">IKKA antibody</a> <a href="#">IKKA_HUMAN antibody</a> <a href="#">Inhibitor Of Kappa Light Polypeptide Gene Enhancer In B Cells antibody</a> <a href="#">Inhibitor Of Nuclear Factor Kappa B Kinase Alpha Subunit antibody</a> <a href="#">Inhibitor of nuclear factor kappa-B kinase subunit alpha antibody</a> <a href="#">NFKBIKA antibody</a> <a href="#">Nuclear Factor Kappa B Inhibitor Kinase Alpha antibody</a> <a href="#">Nuclear factor NF kappa B inhibitor kinase alpha antibody</a> <a href="#">Nuclear factor NF-kappa-B inhibitor kinase alpha antibody</a> <a href="#">Nuclear factor NFkappaB inhibitor kinase alpha antibody</a> <a href="#">Nuclear Factor Of Kappa Light Chain Gene Enhancer In B Cells Inhibitor antibody</a> <a href="#">TCF-16 antibody</a> <a href="#">TCF16 antibody</a> <a href="#">Transcription factor 16 antibody</a></p>
Gene ID:	1147
UniProt:	<a href="#">O15111</a>
Pathways:	<a href="#">PI3K-Akt Signaling</a> , <a href="#">NF-kappaB Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">TCR Signaling</a> , <a href="#">TLR Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Activation of Innate immune Response</a> , <a href="#">Hepatitis C</a> , <a href="#">Toll-Like Receptors Cascades</a> , <a href="#">BCR Signaling</a> , <a href="#">Ubiquitin Proteasome Pathway</a> , <a href="#">S100 Proteins</a>

## Application Details

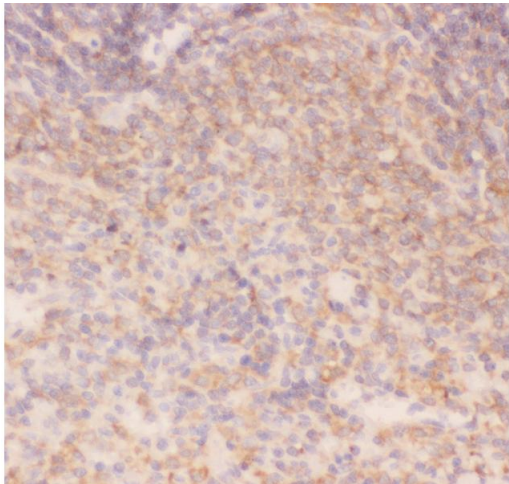
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for IKK alpha is approximately 0.2 ng/lane under reducing conditions. IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
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Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
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Restrictions:	For Research Use only
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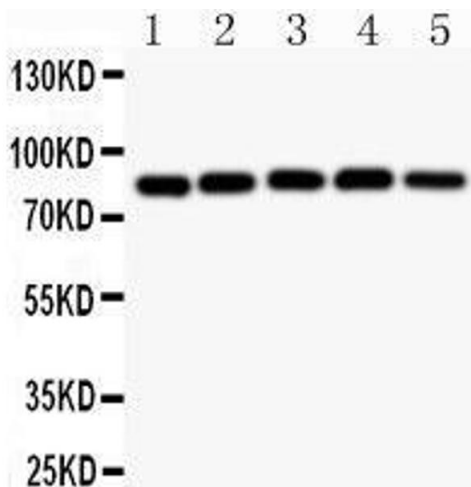
## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.



**Immunohistochemistry**

**Image 1.** Anti-IKK alpha Picoband antibody, IHC(P): Rat Spleen Tissue



**Western Blotting**

**Image 2.** Observed bind size: 85KD



**Western Blotting**

**Image 3.** Anti-IKK alpha Picoband antibody, All lanes: Anti IKKA at 0.5ug/ml WB: Recombinant Human IKKA Protein 0.5ng Predicted bind size: 40KD Observed bind size: 40KD