

Product datasheet

Anti-IKK alpha antibody ab4111

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Overview

Product name	Anti-IKK alpha antibody
Description	Rabbit polyclonal to IKK alpha
Host species	Rabbit
Specificity	Recognises human IKK alpha and does not cross react with IKK beta or IKK gamma.
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to amino acids 716-734 of human IKK alpha (1,2), which differs from corresponding murine sequence by four amino acids.
Positive control	Whole cell lysate from HeLa or Jurkat cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	PBS with 0.02% sodium azide
Purity	IgG fraction
Purification notes	Purified IgG was prepared from rabbit antiserum by affinity chromatography.
Clonality	Polyclonal
Isotype	IgG

Applications

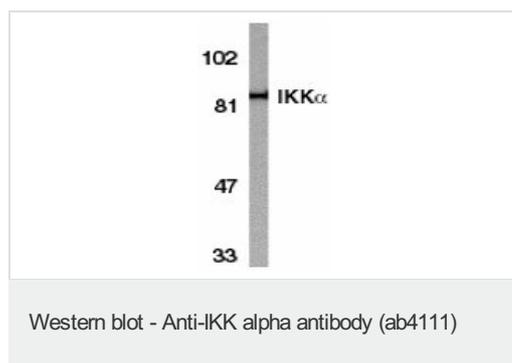
Our [Abpromise guarantee](#) covers the use of **ab4111** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★ ★ ★ ☆ ☆	

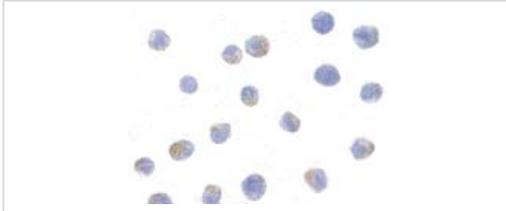
Application	Abreviews	Notes
ICC/IF		
Application notes	ICC/IF: Use at a concentration of 1 µg/ml. WB: At 1/1000-1/2000 dilution a 85kDa band should be detected.	
	Not yet tested in other applications. Optimal dilutions/concentrations should be determined by the end user.	
Target		
Function	Acts as part of the IKK complex in the conventional pathway of NF-kappa-B activation and phosphorylates inhibitors of NF-kappa-B thus leading to the dissociation of the inhibitor/NF-kappa-B complex and ultimately the degradation of the inhibitor. As part of the non-canonical pathway of NF-kappa-B activation, the MAP3K14-activated CHUK/IKKA homodimer phosphorylates NFKB2/p100 associated with RelB, inducing its proteolytic processing to NFKB2/p52 and the formation of NF-kappa-B RelB-p52 complexes. Also phosphorylates NCOA3. Phosphorylates 'Ser-10' of histone H3 at NF-kappa-B-regulated promoters during inflammatory responses triggered by cytokines.	
Tissue specificity	Widely expressed.	
Involvement in disease	Defects in CHUK are the cause of cocoon syndrome (COCOS) [MIM:613630]; also known as fetal encasement syndrome. COCOS is a lethal syndrome characterized by multiple fetal malformations including defective face and seemingly absent limbs, which are bound to the trunk and encased under the skin.	
Sequence similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. I-kappa-B kinase subfamily. Contains 1 protein kinase domain.	
Post-translational modifications	Phosphorylated by MAP3K14/NIK, AKT and to a lesser extent by MEKK1, and dephosphorylated by PP2A. Autophosphorylated. Acetylation of Thr-179 by Yersinia yopJ prevents phosphorylation and activation, thus blocking the I-kappa-B signaling pathway.	
Cellular localization	Cytoplasm. Nucleus. Shuttles between the cytoplasm and the nucleus.	

Images



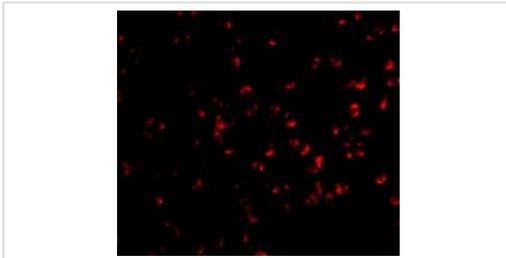
Anti-IKK alpha antibody (ab4111) at 1/1000 dilution + HeLa whole cell lysate

Observed band size: 85 kDa



ab4111 at 1µg/ml staining IKK alpha in Jurkat cells by ICC/IF

Immunocytochemistry/ Immunofluorescence - Anti-IKK alpha antibody (ab4111)



Immunofluorescence of IKK alpha in Jurkat cells using ab4111 at 10 ug/ml.

Immunocytochemistry/ Immunofluorescence - Anti-IKK alpha antibody (ab4111)

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