

DATASHEET

IKB alpha (Phospho-Y42) Rabbit Polyclonal Antibody

CAT. NO. APA11982

KEY FEATURES

Target	IKB alpha (Phospho-Y42)	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Monkey, Pig, Sheep	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

BACKGROUND

Inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL (RELA/p65 and NFKB1/p50) dimers in the cytoplasm by masking their nuclear localization signals dimers in the cytoplasm by masking their nuclear localization signals . On cellular stimulation by immune and pro-inflammatory responses, becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to IKB alpha (Phospho-Y42)
Specificity	Recognizes endogenous levels of IKB alpha protein only when phosphorylated at Y42.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding Y42 of human IKB alpha protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 35 kD; Observed: 37 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	IKBA; MAD3; NFKBI; NF-kappa-B inhibitor alpha; I-kappa-B-alpha; IKB-alpha; IkappaBalpha; Major histocompatibility complex enhancer-binding protein MAD3
Gene Symbol	NFKBIA
Entrez Gene	4792(Human); 18035(Mouse); 25493(Rat)
SwissProt	P25963(Human); Q9Z1E3(Mouse); Q63746(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

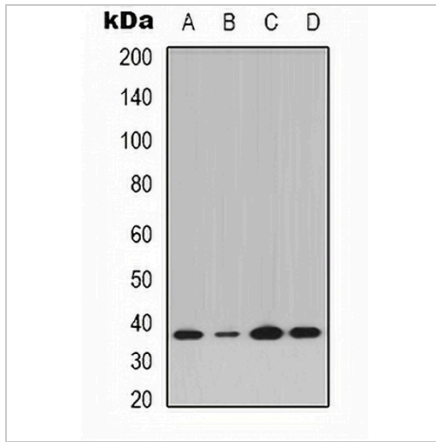
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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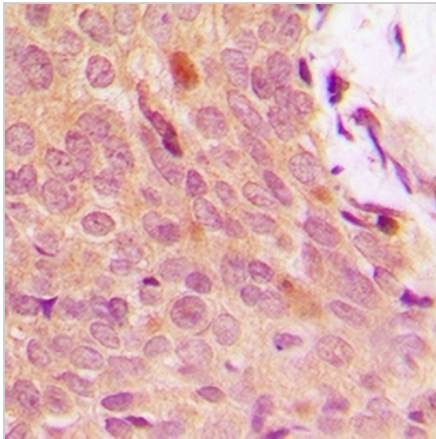
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Western blot analysis of IKB alpha (Phospho-Y42) expression in K562 (A), Jurkat IL1b-treated (B), Raw264.7 LPS-treated (C), H9C2 LPS-treated (D) whole cell lysates. (Predicted band size: 35 kD; Observed band size: 37 kD)



Immunohistochemical analysis of IKB alpha (Phospho-Y42) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.