

IκB-α Mouse mAb

CatalogNo: YM1056

Key Features

Host Species

- Mouse

Reactivity

- Human, Mouse, Rat, Pig, sheep

Applications

- WB

MW

- 36kD (Calculated)

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:1000-1:2000

Not yet tested in other applications.

Basic Information

Clonality Monoclonal

Clone Number 20G7

Immunogen Information

Immunogen Purified recombinant human IκB-α (N-terminus) protein fragments expressed in E.coli.

Specificity IκB-α Monoclonal Antibody detects endogenous levels of IκB-α protein.

Target Information

Gene name NFKBIA IKBA MAD3 NFKBI

Protein Name NF-kappa-B inhibitor alpha

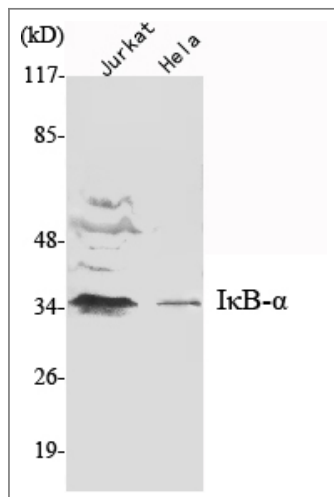
Organism	Gene ID	UniProt ID
Human	4792 ;	P25963 ;
Mouse	18035 ;	Q9Z1E3 ;
Rat	25493 ;	Q63746 ;

Cellular Localization Cytoplasm. Nucleus. Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export. .

Tissue specificity Brain,Kidney,Lymph node,Monocyte,

Function Disease:Defects in NFKBIA are the cause of ectodermal dysplasia anhidrotic with T-cell immunodeficiency autosomal dominant (AEDDAID) [MIM:612132]. Ectodermal dysplasia defines a heterogeneous group of disorders due to abnormal development of two or more ectodermal structures. AEDDAID is an ectodermal dysplasia associated with decreased production of pro-inflammatory cytokines and certain interferons, rendering patients susceptible to infection.,Function:Inhibits the activity of dimeric NF-kappa-B/REL complexes by trapping REL dimers in the cytoplasm through masking of their nuclear localization signals. On cellular stimulation by immune and proinflammatory responses, becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription.,induction:Induced in adherent monocytes.,online information:NFKBIA mutation db,PTM:Phosphorylated; disables inhibition of NF-kappa-B DNA-binding activity.,PTM:Sumoylated; sumoylation requires the presence of the nuclear import signal.,PTM:Ubiquitinated; subsequent to stimulus-dependent phosphorylation on serines.,similarity:Belongs to the NF-kappa-B inhibitor family.,similarity:Contains 5 ANK repeats.,subcellular location:Shuttles between the nucleus and the cytoplasm by a nuclear localization signal (NLS) and a CRM1-dependent nuclear export.,subunit:Interacts with RELA; the interaction requires the nuclear import signal. Interacts with NKIRAS1 and NKIRAS2. Part of a 70-90 kDa complex at least consisting of CHUK, IKBKB, NFKBIA, RELA, IKBKAP and MAP3K14. Interacts with HBV protein X. Interacts with RWDD3; the interaction enhances sumoylation.,

Validation Data



Western Blot analysis using IκB-α Monoclonal Antibody against Jurkat, HeLa cell lysate.

| Contact information

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IκB-α Mouse mAb

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