

Anti-IKBKA Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Horse)
Molecular Weight:	Theoretical: 85 kDa.
Purification:	Protein A purified

Applications

Verified Activity:

1. Tissue/cell: Rat colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-IKK alpha Polyclonal Antibody, Unconjugated (TMAB-00929) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
2. Paraformaldehyde-fixed, paraffin embedded (mouse colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (IKK alpha CHUK) Polyclonal Antibody, Unconjugated (TMAB-00929) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
3. Paraformaldehyde-fixed, paraffin embedded (rat liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (IKK alpha CHUK) Polyclonal Antibody, Unconjugated (TMAB-00929) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
4. Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (IKK alpha CHUK) Polyclonal Antibody, Unconjugated (TMAB-00929) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
5. Paraformaldehyde-fixed, paraffin embedded (rat colon); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (IKK alpha CHUK) Polyclonal Antibody, Unconjugated (TMAB-00929) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
6. Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (IKK alpha CHUK) Polyclonal Antibody, Unconjugated (TMAB-00929) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
7. Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (IKK alpha)

polyclonal Antibody, Unconjugated (TMAB-00929) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nucleus.

8. Blank control (black line): U251. Primary Antibody (green line): Rabbit Anti-IKK alpha antibody (TMAB-00929)

Dilution: 1 µg/Test;

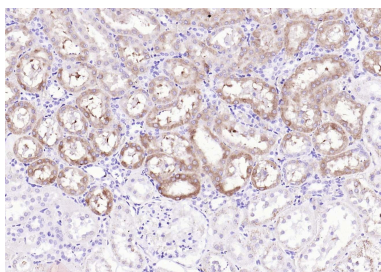
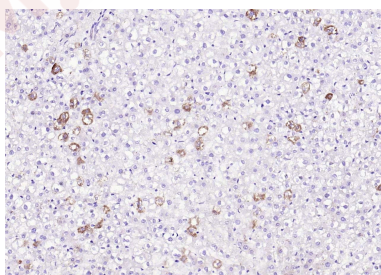
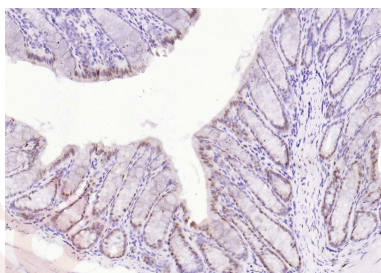
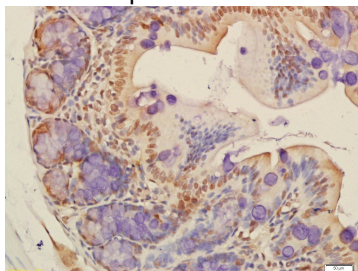
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF488

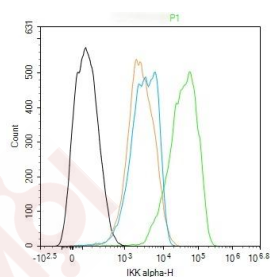
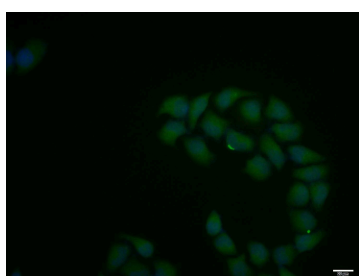
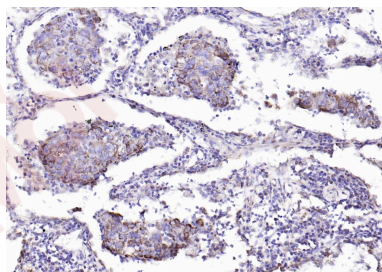
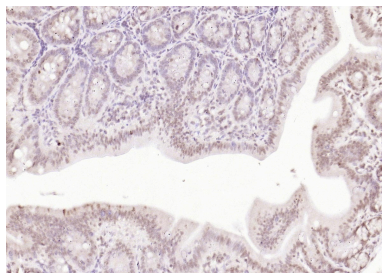
Dilution: 0.5 µg/Test.

Isotype control (orange line): Normal Rabbit IgG

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.





Application: FCM, ICC/IF, IF, IHC-Fr, IHC-P

Recommended FCM=1 µg/Test; ICC/IF=1:100-500; IF=1:100-500; IHC-Fr=1:100-500; IHC-P=1:100-500

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human IKK alpha

Antigen Species: Human

Gene ID: 1147

Uniprot ID: O15111

Synonyms: IKK a kinase; I Kappa B Kinase alpha; Nuclear factor NF kappa B inhibitor kinase alpha; NFKB1A; Inhibitor Of Nuclear Factor Kappa B Kinase alpha Subunit; IkappaB kinase; IKK A; Nuclear Factor Kappa B Inhibitor Kinase alpha; Nuclear Factor Of Kappa Light Chain Gene Enhancer In B Cells Inhibitor; Inhibitor Of Kappa Light Polypeptide Gene Enhancer In B Cells; IKKA; IKK 1; IKKα; I Kappa B Kinase 1; IKK1; IKKalpha; IKBKA; Nuclear factor NFkappaB inhibitor kinase alpha; TCF16; CHUK;

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Conserved helix loop ubiquitous kinase;IKK alpha;CHUK1;Conserved Helix Loop Helix Ubiquitous Kinase;IKK α ;I κ B kinase alpha subunit

Biology Area: NF κ B Pathway,Other Kinases,TLR Signaling,IKK,Inflammatory mediators,IKK

Research Background

Nuclear factor kappa B (NF κ B) is a ubiquitous transcription factor and an essential mediator of gene expression during activation of immune and inflammatory responses. NF κ B mediates the expression of a great variety of genes in response to extracellular stimuli including IL1, TNF alpha, and bacterial product LPS. NF κ B is associated with I κ B proteins in the cell cytoplasm, which inhibit NF κ B activity. IKK is a serine protein kinase, and the IKK complex contains alpha and beta subunits (IKK alpha and IKK beta). IKK alpha and IKK beta interact with each other and both are essential for NF κ B activation. IKK alpha specifically phosphorylates I κ Ba. IKK α is expressed in variety of human tissues.

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