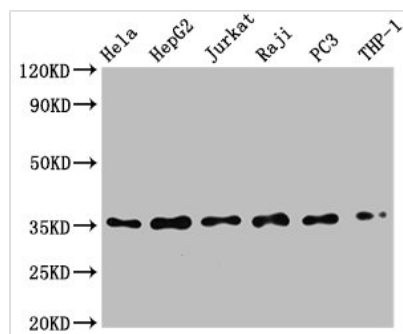




NFKBIA Recombinant Monoclonal Antibody

Product Code	CSB-RA015761A0HU
Abbreviation	NF-kappa-B inhibitor alpha
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P25963
Immunogen	A synthesized peptide derived from human NFKBIA
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC, IP; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IP:1:200-1:1000
Relevance	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.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	NF-kappa-B inhibitor alpha, I-kappa-B-alpha, Ikb-alpha, IkappaBalpaha, Major histocompatibility complex enhancer-binding protein MAD3, NFKBIA, IKBA, MAD3, NFKBI
Immunogen Species	Homo sapiens (Human)
Research Area	Signal Transduction
Gene Names	NFKBIA
Clone No.	1E9

Image



Western Blot

Positive WB detected in: HeLa whole cell lysate, HepG2 whole cell lysate, Jurkat whole cell lysate, Raji whole cell lysate, PC3 whole cell lysate, THP-1 whole cell lysate

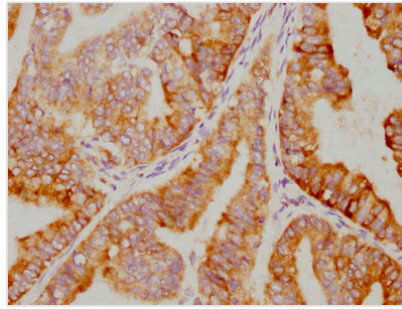
All lanes: NFKBIA antibody at 0.79µg/ml

Secondary

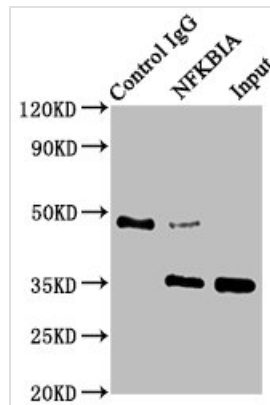
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 36 KDa

Observed band size: 36 KDa



IHC image of CSB-RA015761A0HU diluted at 1:79.75 and staining in paraffin-embedded human endometrial cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunoprecipitating NFKBIA in HepG2 whole cell lysate

Lane 1: Rabbit control IgG instead of CSB-RA015761A0HU in HepG2 whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: CSB-RA015761A0HU (3μg) + HepG2 whole cell lysate (500μg)

Lane 3: HepG2 whole cell lysate (20μg)

Description

CUSABIO immunized an animal with a human NFKBIA-derived peptide to stimulate an immune response. After that, B cells were isolated from the immunized animal and then fused with myeloma cells to form hybridoma cells. A single hybridoma cell clone that produces the desired NFKBIA-specific antibody was screened and selected. Extract RNA from the selected hybridoma cells. The genes that encode the NFKBIA antibody's heavy and light chains were isolated and amplified using reverse transcription PCR techniques. The isolated NFKBIA antibody variable regions were cloned into an expression vector, which is transfected into a host system for expression. The NFKBIA recombinant monoclonal antibodies were purified using affinity chromatography from the cell culture supernatant. The binding specificity and affinity of the recombinant monoclonal NFKBIA antibody were confirmed using ELISA, WB, IHC, and IP applications. This antibody recognizes human NFKBIA protein.