

Anti-IKK alpha Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

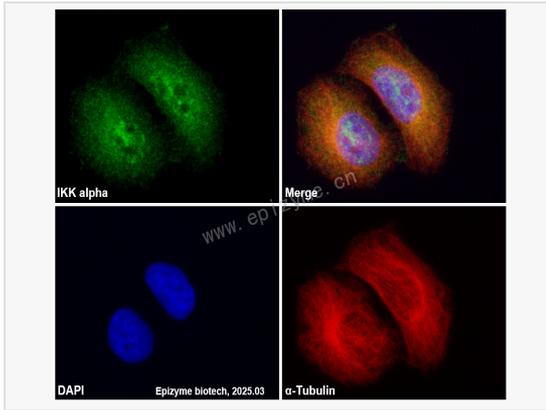
Catalog # R012725

Product Information

| | |
|-------------|---|
| Application | WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA |
| Reactivity | Human |
| Dilution | WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 50K42L84 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthesized peptide derived from human IKK alpha |
| Format | Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-IKK alpha Rabbit mAb [50K42L84] is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

| | |
|-------------------|--|
| Synonyms | chuk, CHUK1, Conserved Helix Loop Helix Ubiquitous Kinase, Conserved helix loop ubiquitous kinase, Conserved helix-loop-helix ubiquitous kinase, I Kappa B Kinase 1, I Kappa B Kinase Alpha, I-kappa-B kinase 1, I-kappa-B kinase alpha, IkappaB kinase, Ikb kinase alpha subunit, IkbKA, IKK 1, IKK A, IKK a kinase, IKK-A, IKK-alpha, IKK1, IKKA, IKKA_HUMAN, Inhibitor Of Kappa Light Polypeptide Gene Enhancer In B Cells, Inhibitor Of Nuclear Factor Kappa B Kinase Alpha Subunit, Inhibitor of nuclear factor kappa-B kinase subunit alpha, NFKBIKA, Nuclear Factor Kappa B Inhibitor Kinase Alpha, Nuclear factor NF kappa B inhibitor kinase alpha, Nuclear factor NF-kappa-B inhibitor kinase alpha, Nuclear factor NFkappaB inhibitor kinase alpha, Nuclear Factor Of Kappa Light Chain Gene Enhancer In B Cells Inhibitor, TCF-16, TCF16, Transcription factor 16. |
| Calculated MW | Calculated MW: 85 kDa; Observed MW: 85 kDa |
| Uniprot ID | O15111 |
| Gene ID | 1147 |
| Background | This gene encodes a member of the serine/threonine protein kinase family. The encoded protein, a component of a cytokine-activated protein complex that is an inhibitor of the essential transcription factor NF-kappa-B complex, phosphorylates sites that trigger the degradation of the inhibitor via the ubiquination pathway, thereby activating the transcription factor. [provided by RefSeq, Jul 2008] |
| Cellular Location | Cytoplasm, Nucleus. Shuttles between the cytoplasm and the nucleus. |
| Tissue Location | Widely expressed. |



Immunofluorescence - Anti-IKK alpha Rabbit mAb [50K42L84]

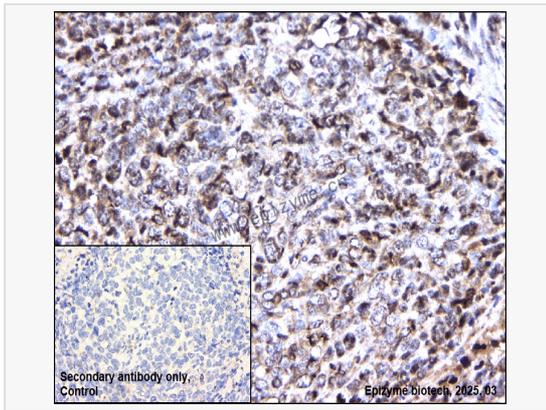
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R012725 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-IKK alpha Rabbit mAb [50K42L84]

Sample: Paraformaldehyde-fixed, paraffin embedded human ovarian cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

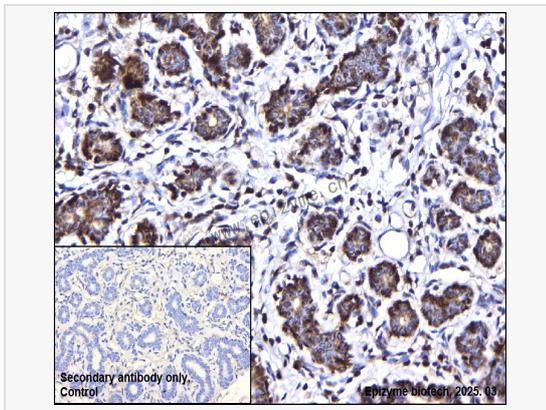
Primary antibody: R012725 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-IKK alpha Rabbit mAb [50K42L84]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

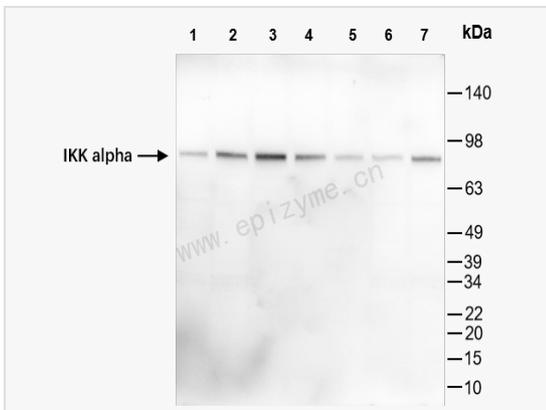
Primary antibody: R012725 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Western Blot - Anti-IKK alpha Rabbit mAb [50K42L84]

All lanes: R012725 at 1:2,000 dilution

Lane 1: A549 (Human lung carcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 5: Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates

Lane 6: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates

Lane 7: 293T (Human embryonic kidney cell) whole cell lysates

Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 85 kDa

Observed band size: 85 kDa

Developed using the ECL technique (Cat. No. SQ201).