Anti-IKK gamma/NEMO Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R010003

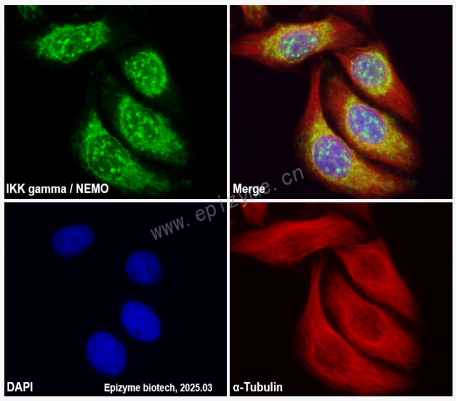
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
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.	89M22M25
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human IKK gamma
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 gamma/NEMO Rabbit mAb [89M22M25] is for research use only and not for use in diagnostic or therapeutic procedures.

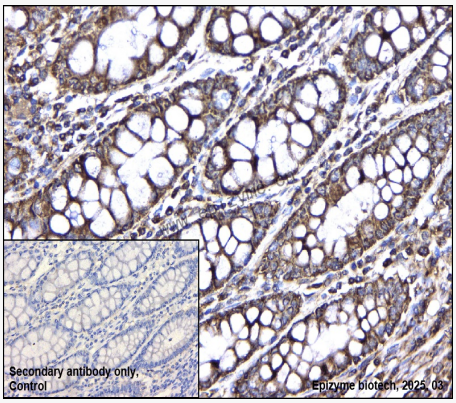
Protein Information

Synonyms	IkB kinase associated protein 1, IkB kinase subunit gamma, Inhibitor of nuclear factor kappa B kinase subunit gamma, AMCBX1, FIP 3, FIP-3, FIP3, Fip3p, I kappa B kinase gamma, I-kappa-B kinase subunit gamma, IkB kinase gamma subunit, IkB kinase subunit gamma, IkB kinase-associated protein 1, Ikbkg, IKK gamma, IKK-gamma, IKKAP1, IKKG, IMD33, Incontinentia pigmenti, Inhibitor of kappa light polypeptide gene enhancer in B cells, kinase gamma, Inhibitor of kappa light polypeptide gene enhancer in B cells, kinase of, gamma, Inhibitor of nuclear factor kappa-B kinase subunit gamma, IP, IP1, IP2, IPD2, NEMO, NEMO_HUMAN, NF kappa B essential modifier, NF kappa B essential modulator, NF-kappa-B essential modifier, NF-kappa-B essential modulator, ZC2HC9.
Calculated MW	Calculated MW: 48 kDa; Observed MW: 46-60 kDa
Uniprot ID	Q9Y6K9
Gene ID	8517
Background	This gene encodes the regulatory subunit of the inhibitor of kappaB kinase (IKK) complex, which activates NF-kappaB resulting in activation of genes involved in inflammation, immunity, cell survival, and other pathways. Mutations in this gene result in incontinentia pigmenti, hypohidrotic ectodermal dysplasia, and several other types of immunodeficiencies. A pseudogene highly similar to this locus is located in an adjacent region of the X chromosome. [provided by RefSeq, Mar 2016]
Cellular Location	Cytoplasm. Nucleus. Sumoylated NEMO accumulates in the nucleus in response to genotoxic stress.
Tissue Location	Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.

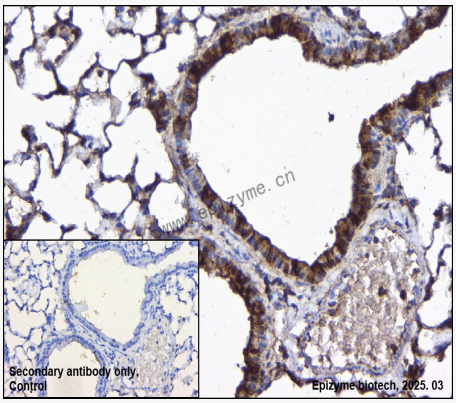
Validation Images



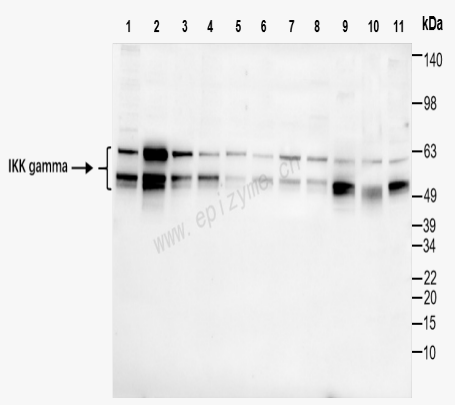
Immunofluorescence - Anti-IKK gamma/NEMO Rabbit mAb [89M22M25]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R010003 at 1:100 dilution and 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 gamma/NEMO Rabbit mAb [89M22M25]
Sample: Paraformaldehyde-fixed, paraffin embedded human colonic cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010003 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 gamma/NEMO Rabbit mAb [89M22M25]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse lung tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R010003 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 gamma/NEMO Rabbit mAb [89M22M25]
All lanes: R010003 at 1:1,000 dilution
Lane 1: A549 (Human lung carinoma 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
Lane 8: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates
Lane 9: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 10: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 11: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 48 kDa
Observed band size: 46-60 kDa
Developed using the ECL technique (Cat. No. SQ201).