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Product datasheet for TA336392

IKK gamma (IKBKG) Mouse Monoclonal Antibody [Clone ID: 46B844]

Product data:

Product Type:	Primary Antibodies
Clone Name:	46B844
Applications:	FC, WB
Recommended Dilution:	Western Blot: 2 ug/ml, Flow Cytometry: 1:10-1:1000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full-length human NEMO (IKKgamma) protein
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma
Database Link:	NP_001093326 Entrez Gene 8517 Human Q9Y6K9

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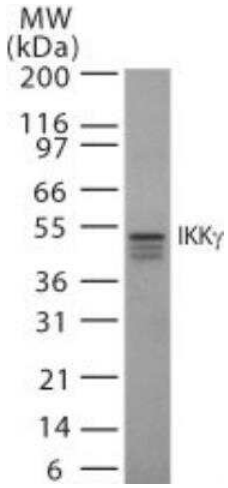
Background: NF-kB (nuclear factor kB) is sequestered in the cytoplasm by IkB family of inhibitory proteins that mask the nuclear localization signal of NF-kB thereby preventing translocation of NF-kB to the nucleus. External stimuli such as tumor necrosis factor or other cytokines results in phosphorylation and degradation of IkB releasing NF-kB dimers. NF-kB dimer subsequently translocates to the nucleus and activates target genes. Synthesis of IkBa is autoregulated. IkB proteins are phosphorylated by IkB kinase complex consisting of at least three proteins, IKK1/a, IKK2/b, and IKK3/g. IKK3/g preferentially interacts with IKK2/b and is required for activation of IKK complex. IKK3/g is also known as NEMO (NF-kB Essential MOdulator). Recent data suggest that the human T-cell leukemia virus type I Tax oncoprotein that activates NF-kB binds neither to IKKa nor IKKb, but complexes directly with IKKg. This suggests that IKKg may be a key molecule acting as an adapter for onco-protein specific signaling to IKKa and IKKb.

Synonyms: AMCBX1; FIP-3; FIP3; Fip3p; IKK-gamma; IKKAP1; IKKG; IMD33; IP; IP1; IP2; IPD2; NEMO; ZC2HC9

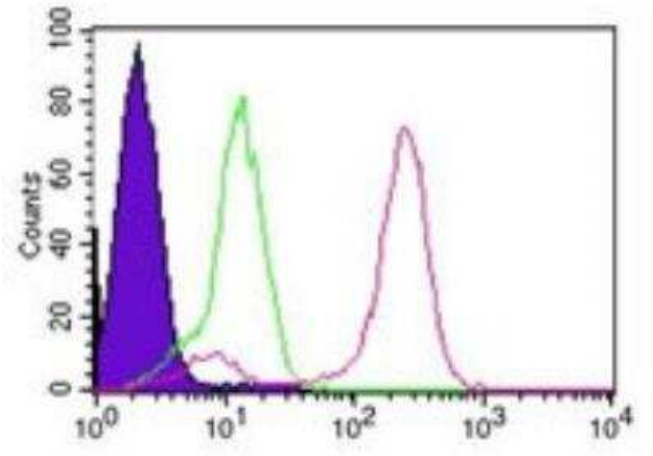
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, MAPK signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Primary immunodeficiency, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

Product images:



Western Blot: IKK gamma Antibody (46B844) TA336392 - Analysis using NEMO (IKKgamma) antibody. Lysate from human Jurkat cells probed with NEMO antibody at 2 ug/ml. The goat anti-mouse IgG1 HRP secondary and PicoTect ECL substrate solution were used for this test.



Flow Cytometry: IKK gamma Antibody (46B844) TA336392 - Human Jurkat cells were probed using 0.1 ug of NEMO antibody (red) and 0.1 ug of isotype control (green), with shaded histogram representing cells alone and an anti-mouse IgG-FITC secondary antibody.