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IKBKG Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant IKBKG.
Catalog # AT2499a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q9Y6K9
Other Accession	BC050612
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	4G9
Calculated MW	48198

Additional Information

Gene ID	8517
Other Names	NF-kappa-B essential modulator, NEMO, FIP-3, IkB kinase-associated protein 1, IKKAP1, Inhibitor of nuclear factor kappa-B kinase subunit gamma, I-kappa-B kinase subunit gamma, IKK-gamma, IKKG, IkB kinase subunit gamma, NF-kappa-B essential modifier, IKBKG, FIP3, NEMO
Target/Specificity	IKBKG (AAH50612, 1 a.a. ~ 419 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	IKBKG Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

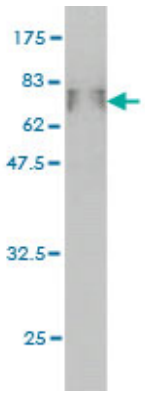
Background

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. Multiple transcript variants encoding different isoforms have been found for this gene. A pseudogene highly similar to this locus is located in an adjacent region of the X chromosome.

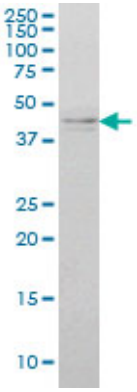
References

Immune deficiency caused by impaired expression of nuclear factor-kappaB essential modifier (NEMO) because of a mutation in the 5' untranslated region of the NEMO gene. Mooster JL, et al. J Allergy Clin Immunol, 2010 Jul. PMID 20542322.NEMO gene mutations in Chinese patients with incontinentia pigmenti. Hsiao PF, et al. J Formos Med Assoc, 2010 Mar. PMID 20434027.The LCR at the IKBKG locus is prone to recombine. Fusco F, et al. Am J Hum Genet, 2010 Apr 9. PMID 20380930.IKK{gamma} protein is a target of BAG3 regulatory activity in human tumor growth. Ammirante M, et al. Proc Natl Acad Sci U S A, 2010 Apr 20. PMID 20368414.Activation of noncanonical NF-kappaB signaling by the oncoprotein Tio. de Jong SJ, et al. J Biol Chem, 2010 May 28. PMID 20353939.

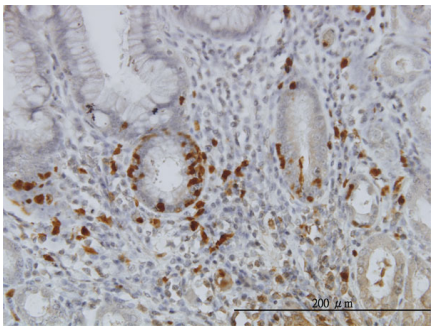
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (71.83 KDa) .

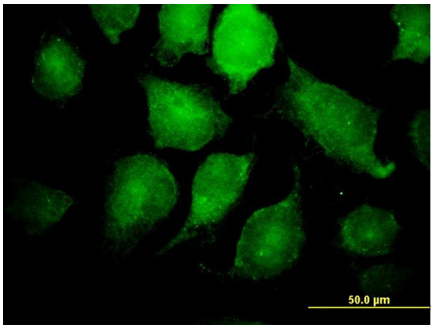


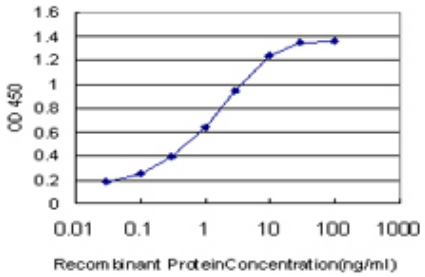
IKBKG monoclonal antibody (M01), clone 4G9 Western Blot analysis of IKBKG expression in K-562 ((Cat # AT2499a)



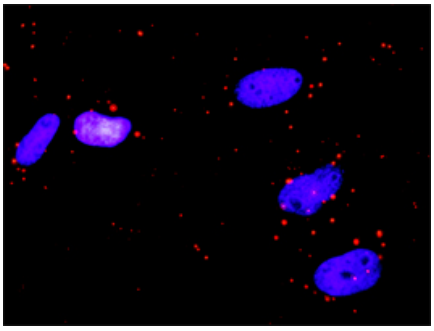
Immunoperoxidase of monoclonal antibody to IKBKG on formalin-fixed paraffin-embedded human stomach. [antibody concentration 3 ug/ml]

Immunofluorescence of monoclonal antibody to IKBKG on HeLa cell. [antibody concentration 8 ug/ml]





Detection limit for recombinant GST tagged IKBKG is approximately 0.1ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between RALBP1 and IKBKG HeLa cells were stained with anti-RALBP1 rabbit purified polyclonal 1:1200 and anti-IKBKG mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.