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RELA Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant RELA.
Catalog # AT3616a

Product Information

Application	WB, IF, E
Primary Accession	Q04206
Other Accession	NM_021975
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Lambda
Clone Names	8G3
Calculated MW	60219

Additional Information

Gene ID	5970
Other Names	Transcription factor p65, Nuclear factor NF-kappa-B p65 subunit, Nuclear factor of kappa light polypeptide gene enhancer in B-cells 3, RELA, NFKB3
Target/Specificity	RELA (NP_068810, 432 a.a. ~ 505 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 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	RELA Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

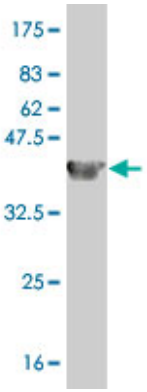
Background

NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA, or RELB (MIM 604758) to form the NFKB complex. The p50 (NFKB1)/p65 (RELA) heterodimer is the most abundant form of NFKB. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA, MIM 164008 or NFKBIB, MIM 604495), which inactivate NFKB by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, MIM 600664, or IKBKB, MIM 603258) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NFKB complex. Activated NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime (where H is A, C, or T; R is an A or G purine; and Y is a C or T pyrimidine).

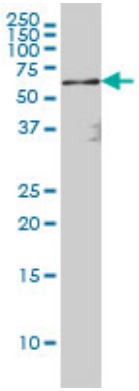
References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Involvement of the p65/RelA subunit of NF-kappaB in TNF-alpha-induced SIRT1 expression in vascular smooth muscle cells. Zhang HN, et al. Biochem Biophys Res Commun, 2010 Jul 2. PMID 20617556.Dichotomy in NF-kappaB signaling and chemoresistance in immunoglobulin variable heavy-chain-mutated versus unmutated CLL cells upon CD40/TLR9 triggering. Tromp JM, et al. Oncogene, 2010 Sep 9. PMID 20581863.Nuclear factor kappaB transcription factors are coexpressed and convey a poor outcome in ovarian cancer. Annunziata CM, et al. Cancer, 2010 Jul 1. PMID 20564628.Inhibition of NFkappaB and pancreatic cancer cell and tumor growth by curcumin is dependent on specificity protein down-regulation. Jutooru I, et al. J Biol Chem, 2010 Aug 13. PMID 20538607.

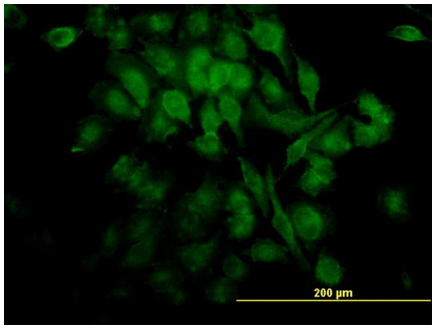
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33.88 KDa) .

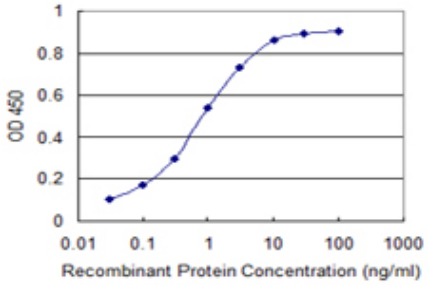


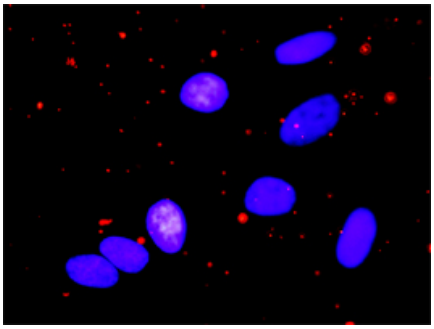
RELA monoclonal antibody (M01), clone 8G3 Western Blot analysis of RELA expression in Hela S3 NE ((Cat # AT3616a)



Immunofluorescence of monoclonal antibody to RELA on HeLa cell. [antibody concentration 35 ug/ml]

Detection limit for recombinant GST tagged RELA is 0.03 ng/ml as a capture antibody.





Proximity Ligation Analysis of protein-protein interactions between IKBKB and RELA. HeLa cells were stained with anti-IKBKB rabbit purified polyclonal 1:1200 and anti-RELA 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'.