10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RELA Antibody (monoclonal) (M01)

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

Specification

RELA Antibody (monoclonal) (M01) - Product Information

Application	**WB, IF, E**
Primary Accession	Q04206
Other Accession	NM_021975
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Lambda**
Calculated MW	**60219**

RELA Antibody (monoclonal) (M01) - 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.

RELA Antibody (monoclonal) (M01) - Protocols

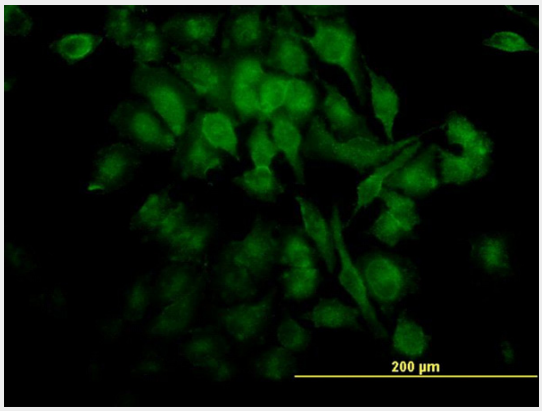
Provided below are standard protocols that you may find useful for product applications.

- Western Blot

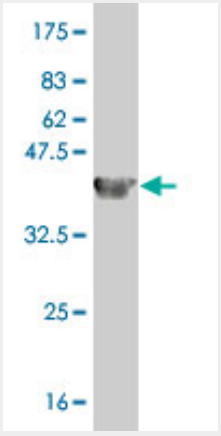
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

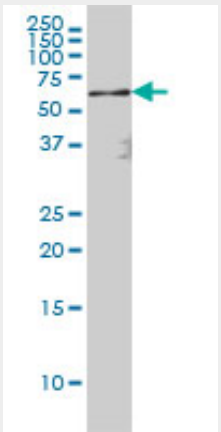
RELA Antibody (monoclonal) (M01) - Images



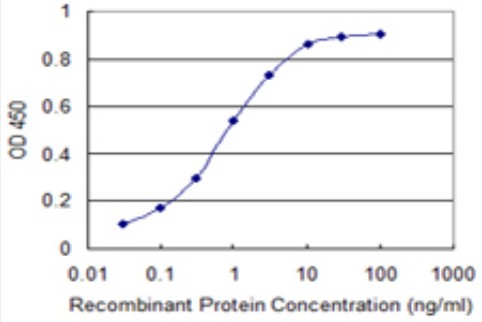
Immunofluorescence of monoclonal antibody to RELA on HeLa cell. [antibody concentration 35 ug/ml]



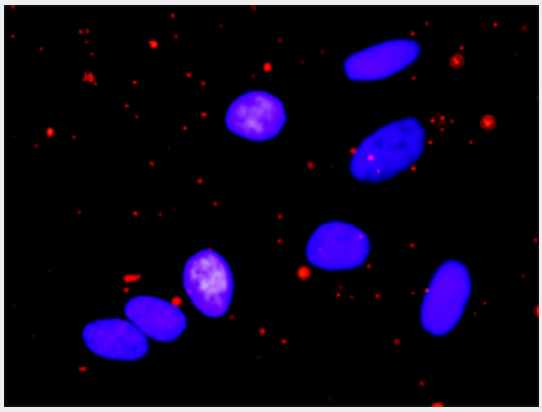
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33.88 KDa) .



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



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).

RELA Antibody (monoclonal) (M01) - 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).

RELA Antibody (monoclonal) (M01) - 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.