

RELA Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant RELA.

Catalog # AT3616a

Specification

RELA Antibody (monoclonal) (M01) - Product Information

Application	IF, WB, 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

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.

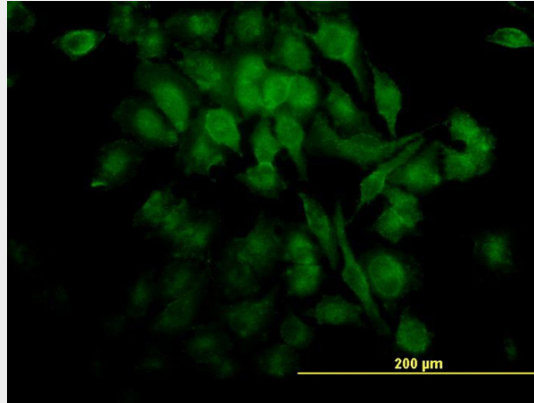
RELA Antibody (monoclonal) (M01) - Protocols

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

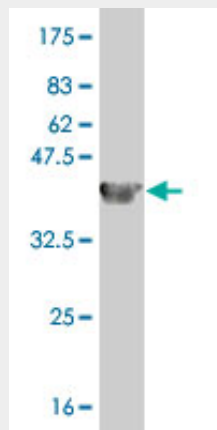
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

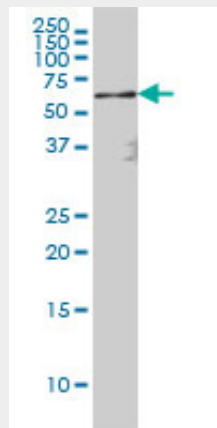
RELA Antibody (monoclonal) (M01) - Images



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

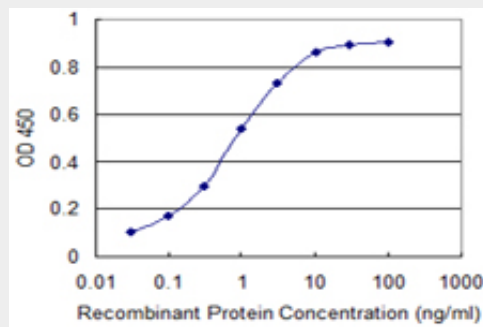


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (33.88 KDa) .

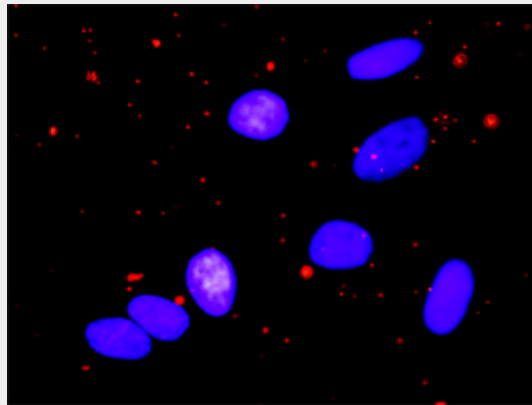


RELA monoclonal antibody (M01), clone 8G3 Western Blot analysis of RELA expression in HeLa S3

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 GGGRNYYCC 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.