REL Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Rel, Polyclonal Antibody
Full Product Name	Rel (Phospho-Ser492/460) Antibody
Product Gene Name	anti-Rel antibody
Product Synonym Names	Proto-oncogene c-Rel; Proto-oncogene c-Rel
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	This antibody detects endogenous levels of Rel (Phospho Ser492/460) Rabbit pAb at Human, Mouse
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	68,520 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (61108752..61150178). Location: 2p13-p12
OMIM	164910
3D Structure	ModBase 3D Structure for Q04864
Immunogen	Synthesized peptide derived from human Rel (Phospho Ser492/460)
Modification	Phospho Specific
Product Categories/Family for anti-Rel antibody	Primary Antibodies
Applications Tested/Suitable for anti-Rel antibody	Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-Rel antibody	WB: 1:500-2000 IHC: 1:50-200
Related Product Information for anti-Rel antibody	REL proto-oncogene, NF-kB subunit(REL) Homo sapiens This gene encodes a protein that belongs to the Rel homology domain/immunoglobulin-like fold, plexin, transcription factor (RHD/IPT) family. Members of this family regulate genes involved in apoptosis, inflammation, the immune response, and oncogenic processes. This proto-oncogene plays a role in the survival and proliferation of B lymphocytes. Mutation or amplification of this gene is associated with B-cell lymphomas, including Hodgkin's lymphoma. Single nucleotide polymorphisms in this gene are associated with susceptibility toulcerative colitis and rheumatoid arthritis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2014]
Other Notes	Small volumes of anti-Rel antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Rel purchase	MBS9524481 is an antibody targeting Rel. Also known as Rel (Phospho-Ser492/460) Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Rel. It may not necessarily be applicable to this product.

NCBI GI #	4506473
NCBI GeneID	5966
NCBI Accession #	NP_002899.1
UniProt Primary Accession #	Q04864
UniProt Secondary Accession #	Q2PNZ7; Q6LDY0
UniProt Related Accession #	Q04864
GenBank Nucleotide #	NM_002908.2
NCBI Official Full Name	proto-oncogene c-Rel
NCBI Official Synonym Full Names	v-rel reticuloendotheliosis viral oncogene homolog (avian)
NCBI Official Symbol	REL
NCBI Official Synonym Symbols	C-Rel
UniProt Protein Name	Proto-oncogene c-Rel
Protein Family	Nuclear factor
UniProt Gene Name	REL
UniProt Entry Name	REL_HUMAN
NCBI Protein Information	proto-oncogene c-Rel; C-Rel proto-oncogene protein; oncogene REL, avian reticuloendotheliosis; v-rel avian reticuloendotheliosis viral oncogene homolog
NCBI Summary for Rel	The REL gene encodes c-Rel, a transcription factor that is a member of the Rel/NFKB family, which also includes RELA (MIM 164014), RELB (604758), NFKB1 (MIM 164011), and NFKB2 (MIM 164012). These proteins are related through a highly conserved N-terminal region termed the 'Rel domain,' which is responsible for DNA binding, dimerization, nuclear localization, and binding to the NFKB inhibitor (MIM 164008) (Belguise and Sonenshein, 2007 [PubMed 18037997]).[supplied by OMIM, May 2008]
UniProt Comments for Rel	REL: a proto-oncogenic transcription factor of the nuclear factor-kappaB (NFkB) group. There are five NFkB proteins in mammals (RelA/NFkB-p65, RelB, c-Rel, NF-_B1/NFkB-p105, and NF-_B2/NFkB-p100). They form a variety of homodimers and heterodimers, each of which activates its own characteristic set of genes. May play a role in differentiation and lymphopoiesis. Protein type: Transcription factor; Oncoprotein Chromosomal Location of Human Ortholog: 2p13-p12 Cellular Component: nucleoplasm; transcription factor complex; cytosol Molecular Function: protein binding; chromatin binding; transcription factor activity Biological Process: I-kappaB kinase/NF-kappaB cascade; positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of interleukin-12 biosynthetic process; transcription, DNA-dependent; response to cytokine stimulus; cytokine production; innate immune response; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription from RNA polymerase II promoter; inflammatory response
Research Articles on Rel	**1.** UCP4 is a target effector gene of the NF-kappaB c-Rel prosurvival pathway to mitigate the effects of oxidative stress.

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