

Proto-oncogene c-Rel (REL) Recombinant Protein | REL recombinant protein

Recombinant Human Proto-oncogene c-Rel (REL), partial

CATALOG # AAA18718	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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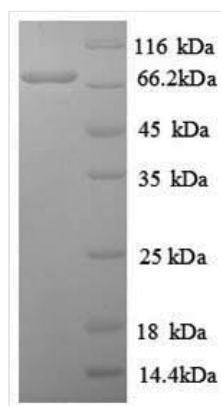
PRODUCT SYNONYMS

Proto-oncogene c-Rel (REL); Recombinant Human Proto-oncogene c-Rel (REL); partial; REL recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	3-616aa; Partial
Sequence	SGAYNPYIEI IEQPRQRGMR FRYKCEGRSA GSIPGEHSTD NNRTYPSIQI MNYYGKGGKVR ITLVTKNDPY KPHPHDLVGK DCRDGYEAE FGQERRPLFF QNLGIRCVKK KEVKEAITR IKAGINPFNV PEQQLNDIED CDLNVVRLCF QVFLPDEHGN LTTALPPVVS NPIYDNRAPN TAE LRICRVN KNC GSVRGGD EIFLLCDKVQ KDDIEVRFVL NDWEAKGIFS QADVHRQVAI VFKTPPYCKA ITEPVTVKMQ LRRPSDQEV S ESMDFRYLPD EKDTYGNKAK KQKTTLLFQK LCQDHVETGF RHVDQDGL EL LTSGDPPTLA QSAGITVNF PERPRGLLG SIGEGRYFKK EPNLFSDAV VREMP TGVSS QAESYYPSPG PISSGLSHHA SMAPLPSSSW SSVAHPTPRS GNTNPLSSFS TRTLPSNSQG IPPFLRIPVG NDLNASNACI YNNADDIVGM EASSMPSADL YGISDPNMLS NCSVNMMTTS SDSMGETDNP RLLSMNLENP SCNSVLDPRD LRQLHQMS S SMSAGANSNT TVFVSQSDAF EGSD FSCADN SMINESGPSN STNPNSHGFV QDSQYSGIGS MQNEQLSDSF PYEF
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for REL recombinant protein	Proto-oncogene that may play a role in differentiation and lymphopoiesis. NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processes such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. The NF-kappa-B heterodimer RELA/p65-c-Rel is a transcriptional activator.
Product Categories/Family for REL recombinant protein	Transcription
References	A human rel proto-oncogene cDNA containing an Alu fragment as a potential coding exon.Brownell E., Mittereder N., Rice N.R.Oncogene 4:935-942(1989) NHLBI resequencing and genotyping service (RS&G) Generation and annotation of the DNA sequences of human chromosomes 2 and 4.Hillier L.W., Graves T.A., Fulton R.S., Fulton L.A., Pepin K.H., Minx P., Wagner-McPherson C., Layman D., Wylie K., Sekhon M., Becker M.C., Fewell G.A., Delehaunty K.D., Miner T.L., Nash W.E., Krimm T.C., Oddy L., Du H., Sun H., Bradshaw-Cordum H., Ali J., Carter J., Cordes M., Harris A., Isak A., van Brunt A., Nguyen C., Du F., Courtney L., Kalicki J., Ozersky P., Abbott S., Armstrong J., Belter E.A., Caruso L., Cedroni M., Cotton M., Davidson T., Desai A., Elliott G., Erb T., Fronick C., Gaige T., Haakenson W., Haglund K., Holmes A., Harkins R., Kim K., Kruchowski S.S., Strong C.M., Grewal N., Goyea E., Hou S., Levy A., Martinka S., Mead K., McLellan M.D., Meyer R., Randall-Maher J., Tomlinson C., Dauphin-Kohlberg S., Kozlowicz-Reilly A., Shah N., Swearingen-Shahid S., Snider J., Strong J.T., Thompson J., Yoakum M., Leonard S., Pearman C., Trani L., Radionenko M., Waligorski J.E., Wang C., Rock S.M., Tin-Wollam A.-M., Maupin R., Latreille P., Wendl M.C., Yang S.-P., Pohl C., Wallis J.W., Spieth J., Bieri T.A., Berkowicz N., Nelson J.O., Osborne J., Ding L., Meyer R., Sabo A., Shotland Y., Sinha P., Wohldmann P.E., Cook L.L., Hickenbotham M.T., Eldred J., Williams D., Jones T.A., She X., Ciccarelli F.D., Izaurralde E., Taylor J., Schmutz J., Myers R.M., Cox D.R., Huang X., McPherson J.D., Mardis E.R., Clifton S.W., Warren W.C., Chinwalla A.T., Eddy S.R., Marra M.A., Ovcharenko I., Furey T.S., Miller W., Eichler E.E., Bork P., Suyama M., Torrents D., Waterston R.H., Wilson R.K.Nature 434:724-731(2005) Genetic characterization of human c-rel sequences.Brownell E., O'Brien S.J., Nash W.G., Rice N.R.Mol. Cell. Biol. 5:2826-2831(1985) A novel complex between the p65 subunit of NF-kappa B and c-Rel binds to a DNA element involved in the phorbol ester induction of the human urokinase gene.Hansen S.K., Nerlov C., Zabel U., Verde P., Johnsen M., Baeuerle P.A., Blasi F.EMBO J. 11:205-213(1992) Activation of multiple NF-kappa B/Rel DNA-binding complexes by tumor necrosis factor.Beg A.A., Baldwin A.S. Jr.Oncogene 9:1487-1492(1994) Regulation of intercellular adhesion molecule-1 gene by tumor necrosis factor-alpha is mediated by the nuclear factor-kappaB heterodimers p65/p65 and p65/c-Rel in the absence of p50.Aoudjit F., Brochu N., Belanger B., Stratowa C., Hiscott J., Audette M.Cell Growth Differ. 8:335-342(1997) A new member of the IkappaB protein family, IkappaB epsilon, inhibits RelA (p65) -mediated NF-kappaB transcription.Li Z., Nabel G.J.Mol. Cell. Biol. 17:6184-6190(1997) Tumor necrosis factor-alpha activation of NF-kappa B requires the phosphorylation of Ser-471 in the transactivation domain of c-Rel.Martin A.G., Fresno M.J. Biol. Chem. 275:24383-24391(2000) Leishmania major amastigotes induce p50/c-Rel NF-kappa B transcription factor in human macrophages involvement in cytokine synthesis.Guizani-Tabbane L., Ben-Aissa K., Belghith M., Sassi A., Dellagi K.Infect. Immun. 72:2582-2589(2004) Inhibition of NF-kappaB activity by IkappaBbeta in association with kappaB-Ras.Chen Y., Vallee S., Wu J., Vu D., Sondek J., Ghosh G.Mol. Cell. Biol. 24:3048-3056(2004) N-terminal acetylome analyses and functional insights of the N-terminal acetyltransferase NatB.Van Damme P., Lasa M., Polevoda B., Gazquez C., Elosegui-Artola A., Kim D.S., De Juan-Pardo E., Demeyer K., Hole K., Larrea E., Timmerman E., Prieto J., Arnesen T., Sherman F., Gevaert K., Aldabe R.Proc. Natl. Acad. Sci. U.S.A. 109:12449-12454(2012)

NCBI AND UNIPROT INFORMATION

NCBI GI #	619534182
NCBI GeneID	5966
NCBI Accession #	NP_001278675.1
NCBI GenBank Nucleotide #	NM_001291746.1

UniProt Accession #	Q04864 ; Q17RU2 ; Q2PNZ7 ; Q6LDY0
Molecular Weight	71.9 kDa
NCBI Official Full Name	proto-oncogene c-Rel isoform 2
NCBI Official Synonym Full Names	v-rel avian reticuloendotheliosis viral oncogene homolog
NCBI Official Symbol	REL
NCBI Official Synonym Symbols	C-Rel
NCBI Protein Information	proto-oncogene c-Rel
UniProt Protein Name	Proto-oncogene c-Rel
UniProt Gene Name	REL
UniProt Entry Name	REL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/rel-recombinant-protein-e-coli/18718>