NLRP2 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	NLRP2, Blocking Peptide
Full Product Name	NLRP2 Peptide - C-terminal region
Product Gene Name	NLRP2 blocking peptide
Product Synonym Gene Name	CLR19.9; FLJ20510; NALP2; NBS1; PAN1; PYPAF2
Sequence	FSSPSTHSAQ KDTVASVMYT VVTPMLNPFI YSLRNQEIKS SLRKLIWVRK
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	NLRP2 peptide (MBS3238093) is used for blocking the activity of NLRP2 antibody (MBS3213148)
Molecular Weight	35kDa
OMIM	609364
Product Categories/Family for NLRP2 blocking peptide	Peptide
Applications Tested/Suitable for NLRP2 blocking peptide	Western Blot (WB)
Related Product Information for NLRP2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-NLRP2 Antibody, made Target Description: Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms.
Other Notes	Small volumes of NLRP2 blocking peptide 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 NLRP2 purchase	MBS3238093 is a blocking peptide targeting NLRP2. Also known as NLRP2 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NLRP2. It may not necessarily be applicable to this product.

NCBI GI #	8923473
NCBI GeneID	55655
NCBI Accession #	NP_060322
UniProt Primary Accession #	Q9NX02
UniProt Related Accession #	Q9NX02

GenBank Nucleotide #	NM_017852
NCBI Official Full Name	NACHT, LRR and PYD domains-containing protein 2 isoform 1
NCBI Official Synonym Full Names	NLR family pyrin domain containing 2
NCBI Official Symbol	NLRP2
NCBI Official Synonym Symbols	NBS1; PAN1; NALP2; PYPAF2; CLR19.9
UniProt Protein Name	NACHT, LRR and PYD domains-containing protein 2
UniProt Synonym Protein Names	Nucleotide-binding site protein 1; PYRIN domain and NACHT domain-containing protein 1; PYRIN-containing APAF1-like protein 2
Protein Family	NACHT, LRR and PYD domains-containing protein
UniProt Gene Name	NLRP2
UniProt Synonym Gene Names	NALP2; NBS1; PAN1; PYPAF2
UniProt Entry Name	NALP2_HUMAN
NCBI Protein Information	NACHT, LRR and PYD domains-containing protein 2
NCBI Summary for NLRP2	This gene is a member of the nucleotide-binding and leucine-rich repeat receptor (NLR) family, and is predicted to contain an N-terminal pyrin effector domain (PYD), a centrally-located nucleotide-binding and oligomerization domain (NACHT) and C-terminal leucine-rich repeats (LRR). Members of this gene family are thought to be important regulators of immune responses. This gene product interacts with components of the IkB kinase (IKK) complex, and can regulate both caspase-1 and NF-kB (nuclear factor kappa-light-chain-enhancer of activated B cells) activity. The pyrin domain is necessary and sufficient for suppression of NF-kB activity. An allelic variant (rs147585490) has been found that is incapable of blocking the transcriptional activity of NF-kB. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2016]
UniProt Comments for NLRP2	NLRP2: Suppresses TNF- and CD40-induced NFKB1 activity at the level of the IKK complex, by inhibiting NFKBIA degradation induced by TNF. When associated with PYCARD, activates CASP1, leading to the secretion of mature proinflammatory cytokine IL1B. May be a component of the inflammasome, a protein complex which also includes PYCARD, CARD8 and CASP1 and whose function would be the activation of proinflammatory caspases. Belongs to the NLRP family. 4 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 19q13.42 Cellular Component: cytoplasm Molecular Function: protein binding; Pyrin domain binding; ATP binding Biological Process: positive regulation of caspase activity; positive regulation of interleukin-1 beta secretion
Research Articles on NLRP2	**1.** During transition from the pluripotent stage towards the neural developmental stage, NLRP2 is differentially expressed in bipolar patient derived cells compared to control derived cells.
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