APLF Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	APLF, Blocking Peptide
Full Product Name	APLF Blocking Peptide
Product Gene Name	APLF blocking peptide
Product Synonym Names	2010301N04Rik; AI452191; Aplf; APLF_HUMAN; Aprataxin and PNK-like factor; Apurinic-apyrimidinic endonuclease APLF; C2orf13; PNK and APTX like FHA protein; PNK and APTX-like FHA domain-containing protein; RGD1565557; XIP1; XRCC1 interacting protein 1; XRCC1-interacting protein 1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	APLF peptide (MBS9614601) is used for blocking the activity of APLF antibody (MBS9600049)
Molecular Weight	56,956 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (68694691..68807294). Location: 2p13.3
OMIM	611035
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for APLF blocking peptide	Blocking/Control
Related Product Information for APLF blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of APLF 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 APLF purchase	MBS9614601 is a blocking peptide targeting APLF.

ADDITIONAL DETAILS

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

NCBI GI #	27734905
NCBI GeneID	200558
NCBI Accession #	NP_775816.1
UniProt Primary Accession #	Q8IW19

UniProt Secondary Accession #	Q53P47; Q53PB9; Q53QU0; A8K476
UniProt Related Accession #	Q8IW19
GenBank Nucleotide #	NM_173545.2
NCBI Official Full Name	aprataxin and PNK-like factor
NCBI Official Synonym Full Names	aprataxin and PNKP like factor
NCBI Official Symbol	APLF
NCBI Official Synonym Symbols	APFL; PALF; Xip1; C2orf13
UniProt Protein Name	Aprataxin and PNK-like factor
UniProt Synonym Protein Names	Apurinic-apyrimidinic endonuclease APLF; PNK and APTX-like FHA domain-containing protein; XRCC1-interacting protein 1
Protein Family	Aprataxin and PNK-like factor
UniProt Gene Name	APLF
UniProt Synonym Gene Names	C2orf13; PALF; XIP1
UniProt Entry Name	APLF_HUMAN
NCBI Protein Information	aprataxin and PNK-like factor; XRCC1-interacting protein 1; PNK and APTX-like FHA protein; aprataxin- and PNK-like factor; apurinic-apyrimidinic endonuclease APLF; PNK and APTX-like FHA domain-containing protein
NCBI Summary for APLF	C2ORF13 is a component of the cellular response to chromosomal DNA single- and double-strand breaks (Iles et al., 2007 [PubMed 17353262]).[supplied by OMIM, Mar 2008]
UniProt Comments for APLF	APLF: Nuclease involved in single-strand and double-strand DNA break repair. Recruited to sites of DNA damage through interaction with poly(ADP-ribose), a polymeric post-translational modification synthesized transiently at sites of chromosomal damage to accelerate DNA strand break repair reactions. Displays apurinic- apyrimidinic (AP) endonuclease and 3'-5' exonuclease activities in vitro. Also able to introduce nicks at hydroxyuracil and other types of pyrimidine base damage. Interacts with LIG4, PARP1, XRCC1, XRCC4 and XRCC5. Belongs to the APLF family. Protein type: EC 4.2.99.18; DNA repair, damage Chromosomal Location of Human Ortholog: 2p13.3 Cellular Component: nucleoplasm; cytosol; nucleus Molecular Function: protein binding; DNA-(apurinic or apyrimidinic site) lyase activity; metal ion binding; nucleotide binding; 3'-5' exonuclease activity; endodeoxyribonuclease activity Biological Process: regulation of isotype switching; single strand break repair; double-strand break repair; positive regulation of DNA ligation; response to DNA damage stimulus; DNA catabolic process, endonucleolytic
Research Articles on APLF	**1.** APLF promotes the assembly and activity of multi-protein Ku-DNA complexes containing all of the Non-homologous end joining (NHEJ) factors required for DNA ligation.
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