APLF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	APLF, Polyclonal Antibody
Full Product Name	APLF Polyclonal Antibody
Product Gene Name	anti-APLF antibody
Product Synonym Names	APFL; C2orf13; PALF; Xip1; ZCCHH1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	56kDa
OMIM	611035
3D Structure	ModBase 3D Structure for Q8IW19
Immunogen	Recombinant fusion protein of human APLF.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-APLF antibody	Western Blot (WB)
Application Notes for anti-APLF antibody	WB: 1:500-1:2000
Related Product Information for anti-APLF antibody	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]
Other Notes	Small volumes of anti-APLF 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 APLF purchase	MBS8572420 is an antibody targeting APLF. Also known as APLF Polyclonal Antibody. Reactive in Rat. Host: Rabbit.

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 Related Accession #	Q8IW19
GenBank Nucleotide #	NP_775816.1
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; ZCCHH1; 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
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.** The crystal structures of the Ku-binding motifs (KBM) of the non-homologous end joining (NHEJ) proteins APLF (A-KBM) and XLF (X-KBM) bound to a Ku-DNA complex are discussed.
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