

Rabbit anti-Human, Mouse APLF Polyclonal Antibody | anti-APLF antibody

APLF Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320761	Rabbit	Human, Mouse	ELISA, Immunohistochemistry, Western Blot

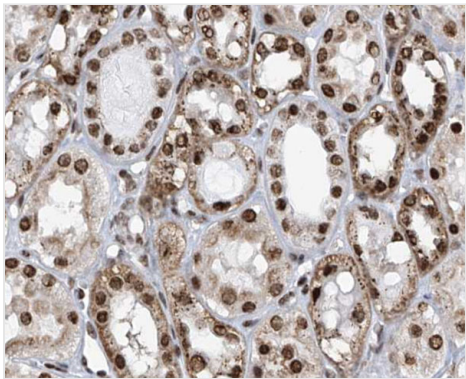
PRODUCT SYNONYMS

APLF; Polyclonal Antibody; APLF Antibody; 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; anti-APLF antibody

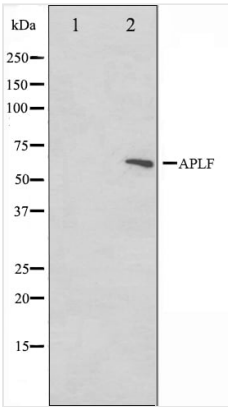
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	APLF antibody detects endogenous levels of total APLF
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	511
Applicable Applications for anti-APLF antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human APLF
Subcellular Location	Nucleus. Cytoplasm > Cytosol. Localizes to DNA damage sites. Accumulates at single-strand breaks and double-strand breaks via the PBZ-type zinc fingers.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
IHC analysis of human kidney, using APLF Antibody at 1/100.



WB (Western Blot)
Western blot analysis on rat heart cell lysate using APLF Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-APLF antibody	Description:	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-aprimidinic (AP) endonuclease and 3'-5' exonuclease activities in vitro. Also able to introduce nicks at hydroxyuracil and other types of pyrimidine base damage. Belongs to the APLF family. Interacts with LIG4, PARP1, XRCC1, XRCC4 and XRCC5.
	Function:	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-aprimidinic (AP) endonuclease and 3'-5' exonuclease activities in vitro. Also able to introduce nicks at hydroxyuracil and other types of pyrimidine base damage.
	Subunit Structure:	Interacts with LIG4, PARP1, XRCC1, XRCC4 and XRCC5.
	Post-translational Modifications:	Poly-ADP-ribosylated. In addition to binding non covalently poly(ADP-ribose) via its PBZ-type zinc fingers, the protein is also covalently poly-ADP-ribosylated by PARP1. Phosphorylated in an ATM-dependent manner upon double-strand DNA break.
	Similarity:	The PBZ-type zinc fingers (also named CYR) mediate non-covalent poly(ADP-ribose)-binding. Poly(ADP-ribose)-binding is dependent on the presence of zinc and promotes its recruitment to DNA damage sites. The FHA-like domain mediates interaction with XRCC1 and XRCC4. Belongs to the APLF family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27734905
NCBI GeneID	200558
NCBI Accession #	NP_775816.1
NCBI GenBank Nucleotide #	NM_173545.2
UniProt Accession #	Q8IW19; Q53P47; Q53PB9; Q53QU0; A8K476
Molecular Weight	Observed: 57 kDa Predicted: 57 kDa
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
NCBI Protein Information	aprataxin and PNK-like factor

UniProt Protein Name	Aprataxin and PNK-like factor
UniProt Gene Name	APLF
UniProt Synonym Gene Names	C2orf13; PALF; XIP1

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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