Rabbit C10orf2 Polyclonal Antibody | anti-C10orf2 antibody

C10orf2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326966	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

C10orf2; Polyclonal Antibody; C10orf2 Antibody; Ataxin 8; Ataxin8; ATXN 8; ATXN8; C10 orf2; C10orf 2; Chromosome 10 open reading frame 2; IOSCA; mitochondrial; MTDPS7; PEO 1; PEO; PEO1; PEO1_HUMAN; PEOA3; Progressive external ophthalmoplegia 1 protein; SANDO; SCA 8; SCA8; T7 gp4 like protein with intramitochondrial nucleoid localization; T7 gp4-like protein with intramitochondrial nucleoid localization; T7 helicase-related protein with intramitochondrial nucleoid localization; T7 like mitochondrial DNA helicase; T7-like mitochondrial DNA helicase; Twinkle protein; TWINL; anti-C10orf2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	C10orf2 antibody detects endogenous levels of total C10orf2
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	582
Applicable Applications for anti-C10orf2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human C10orf2
Subcellular Location	Mitochondrion Matrix > Mitochondrion Nucleoid. Colocalizes with mtDNA in mitochondrial nucleoids, a nucleoproteins complex consisting of a number of copies of proteins associated with mtDNA, probably involved in mtDNA maintenance and expression.
Tissue Specificity	High relative levels in skeletal muscle, testis and pancreas. Lower levels of expression in the heart, brain, placenta, lung, liver, kidney, spleen, thymus, prostate, ovary, small intestine, colon and leukocytes. Expression is coregulated with MRPL43.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

WB (Western Blot)
Western blot analysis of K562 whole cell lysates, using C10orf2 Antibody. The lane on the left is treated with the antigen-specific peptide.

IHC (Immunohistochemistry)
AAA326966 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-C10orf2 antibody	Description: This gene encodes a hexameric DNA helicase which unwinds short stretches of double-stranded DNA in the 5' to 3' direction and, along with mitochondrial single-stranded DNA binding protein and mtDNA polymerase gamma, is thought to play a key role in mtDNA replication. The protein localizes to the mitochondrial matrix and mitochondrial nucleoids. Mutations in this gene cause infantile onset spinocerebellar ataxia (IOSCA) and progressive external ophthalmoplegia (PEO) and are also associated with several mitochondrial depletion syndromes. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Function: Involved in mitochondrial DNA (mtDNA) metabolism. Could function as an adenine nucleotide-dependent DNA helicase. Function inferred to be critical for lifetime maintenance of mtDNA integrity. In vitro, forms in combination with POLG, a processive replication machinery, which can use double-stranded DNA (dsDNA) as template to synthesize single-stranded DNA (ssDNA) molecules. May be a key regulator of mtDNA copy number in mammals. Subunit Structure: Forms multimers in vitro, including hexamers. Interacts with LONP1 (PubMed:14739292). Interacts with POLG in vitro (PubMed:15167897).

NCBI AND UNIPROT INFORMATION

NCBI GI #	255304946
NCBI GeneID	56652
NCBI Accession #	NP_001157284.1
NCBI GenBank Nucleotide #	NM_001163812.1
UniProt Accession #	Q96RR1; Q6MZX2; Q6PJP5; Q96RR0; B2CQL2
Molecular Weight	Observed: 77 kDa Predicted: 78 kDa
NCBI Official Full Name	twinkle protein, mitochondrial isoform B
NCBI Official Synonym Full Names	twinkle mtDNA helicase
NCBI Official Symbol	TWNK
NCBI Official Synonym Symbols	PEO; PEO1; SCA8; ATXN8; IOSCA; PEOA3; SANDO; TWINL; MTDPS7; PRLTS5; C10orf2
NCBI Protein Information	twinkle protein, mitochondrial
UniProt Protein Name	Twinkle protein, mitochondrial
UniProt Gene Name	**TWNK**
UniProt Synonym Gene Names	C10orf2; PEO1

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/polyclonal/c10orf2-antibody-immunohistochemistry-western-blot-elisa/326966