

Rabbit anti-Human C10orf2 Polyclonal Antibody | anti-PEO1 antibody

C10orf2 Antibody (C-term)

CATALOG # AAA284825	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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PRODUCT SYNONYMS

C10orf2; Polyclonal Antibody; C10orf2 Antibody (C-term); Twinkle protein; mitochondrial; Progressive external ophthalmoplegia 1 protein; T7 gp4-like protein with intramitochondrial nucleoid localization; T7-like mitochondrial DNA helicase; PEO1; anti-PEO1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This C10orf2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 656-684 amino acids from the C-terminal region of human C10orf2.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.38 (varies by lot)
Sequence Positions	656-684
Sequence Length	531
Applicable Applications for anti-PEO1 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

C10orf2 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of C10orf2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)

C10orf2 Antibody (C-term) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the C10orf2 antibody detected the C10orf2 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-PEO1 antibody	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.
Product Categories/Family for anti-PEO1 antibody	Neuroscience
References	Longley, M.J., et al. J. Biol. Chem. 285(39):29690-29702(2010) Wang, W., et al. Nucleic Acids Res. (2010) In press : Fratter, C., et al. Neurology 74(20):1619-1626(2010) Kruger, J., et al. Mol Neurodegener 5, 8 (2010) : Bohlega, S., et al. Neuromuscul. Disord. 19(12):845-848(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	255304946
NCBI GeneID	56652
NCBI Accession #	NP_001157284.1; NP_068602.2
NCBI GenBank Nucleotide #	NM_001163812.1
UniProt Accession #	Q96RR1; Q6MZX2; Q6PJP5; Q96RR0; B2CQL2
Molecular Weight	77154
NCBI Official Full Name	twinkle protein, mitochondrial isoform B
NCBI Official Synonym Full Names	chromosome 10 open reading frame 2
NCBI Official Symbol	C10orf2
NCBI Official Synonym Symbols	PEO; PEO1; SCA8; ATXN8; IOSCA; PEOA3; SANDO; TWINL; MTDPS7; PRLTS5
NCBI Protein Information	twinkle protein, mitochondrial
UniProt Protein Name	Twinkle protein, mitochondrial
UniProt Gene Name	PEO1
UniProt Synonym Gene Names	C10orf2
UniProt Entry Name	PEO1_HUMAN

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.