



# Anti-C10ORF2 monoclonal antibody (DCABH-10779)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	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
----------------------------	---

<b>Immunogen</b>	A synthetic peptide of human C10orf2 is used for rabbit immunization.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Protein A
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	Western Blot (Transfected lysate); ELISA
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">C10orf2 chromosome 10 open reading frame 2 [ Homo sapiens ]</a>
<b>Official Symbol</b>	C10orf2
<b>Synonyms</b>	C10ORF2; chromosome 10 open reading frame 2; infantile onset spinocerebellar ataxia (autosomal recessive) , IOSCA; twinkle protein, mitochondrial; FLJ21832; PEO; PEO1; twinkle; TWINKLE; TWINL; ataxin 8; mitochondrial twinkle protein; T7-like mitochondrial DNA helicase; progressive external ophthalmoplegia 1 protein; T7 gp4-like protein with intramitochondrial nucleoid localization; SCA8; ATXN8; IOSCA; PEOA3; SANDO; MTDPS7;
<b>Entrez Gene ID</b>	<a href="#">56652</a>
<b>Protein Refseq</b>	<a href="#">NP_001157284</a>
<b>UniProt ID</b>	<a href="#">Q96RR1</a>
<b>Chromosome Location</b>	10q24
<b>Function</b>	5-3 DNA helicase activity; ATP binding; hydrolase activity; nucleotide binding; protease binding; single-stranded DNA binding;