TRNT1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TRNT1, Monoclonal Antibody
Full Product Name	TRNT1 (CCA tRNA Nucleotidyltransferase 1, Mitochondrial, CCA1, Mitochondrial tRNA Nucleotidyl Transferase, CCA-adding, mt CCA-adding Enzyme
Product Gene Name	anti-TRNT1 antibody
Product Synonym Names	EC=2.7.7.72
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	1G11
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human TRNT1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	6,937 Da
Immunogen	Full length recombinant corresponding to aa1-406 from human TRNT1 (AAH12537) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MKLQSPEFQSLFTEGLKSLTELFVKENHELRIAGGAVRDLLNGVKPQDIDFATTATPTQMKEMFQSAGIRMINNRGEKHGTITARLHEENFEITTLRIDVTTD
Conjugate	MaxLight550
Product Categories/Family for anti-TRNT1 antibody	Antibodies; Enzymes; Transferase
Applications Tested/Suitable for anti-TRNT1 antibody	FLISA, Western Blot (WB)
Application Notes for anti-TRNT1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TRNT1 antibody	MaxLight550 is a new Yellow-Green photostable dye conjugate comparable to Alexa Fluor546, 555, DyLight549, Cy3, TRITC and offers better labeling
Other Notes	Small volumes of anti-TRNT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces

Searchable Terms for TRNT1 purchase	MBS6214550 is an antibody targeting TRNT1. Also known as TRNT1 (CCA tRNA Nucleotidyltransferase 1, Mitochondrial, CCA1, Mitochondrial tRNA N

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TRNT1. It may not necessarily be applicable to this product.

NCBI GI #	15214804
NCBI GeneID	51095
NCBI Accession #	BC012537
NCBI Related Accession #	AAH12537
UniProt Secondary Accession #	Q8ND57; Q9BS97; Q9Y362; A8K2Z6; B7WP13; C9JKA2
UniProt Related Accession #	Q96Q11
NCBI Official Full Name	Homo sapiens tRNA nucleotidyl transferase, CCA-adding, 1, mRNA
NCBI Official Synonym Full Names	tRNA nucleotidyl transferase 1
NCBI Official Symbol	TRNT1
NCBI Official Synonym Symbols	CCA1; RPEM; SIFD; MtCCA; CGI-47
Protein Family	CCA tRNA nucleotidyltransferase
NCBI Protein Information	CCA tRNA nucleotidyltransferase 1, mitochondrial
NCBI Summary for TRNT1	The protein encoded by this gene is a CCA-adding enzyme which belongs to the tRNA nucleotidyltransferase/poly(A) polymerase family. This essential enzyme functions by catalyzing the addition of the conserved nucleotide triplet CCA to the 3' terminus of tRNA molecules. Mutations in this gene result in sideroblastic anemia with B-cell immunodeficiency, periodic fevers, and developmental delay. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]
Research Articles on TRNT1	**1.** The clinical phenotypes associated with TRNT1 mutations are largely due to impaired mitochondrial translation, resulting from defective CCA addition to mitochondrial tRNA(Ser(AGY)).
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