TDRD1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TDRD1, Polyclonal Antibody
Full Product Name	TDRD1 Rabbit pAb
Product Gene Name	anti-TDRD1 antibody
Product Synonym Names	CT41.1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	130kDa
OMIM	605796
3D Structure	ModBase 3D Structure for Q9BXT4
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 25-125 of human TDRD1 (NP_942090.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TDRD1 antibody	Western Blot (WB)
Application Notes for anti-TDRD1 antibody	WB: 1:1000-1:2000
Related Product Information for anti-TDRD1 antibody	MBS8548758 is an antibody targeting TDRD1. Also known as TDRD1 Rabbit pAb. Reactive in Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-TDRD1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TDRD1. It may not necessarily be applicable to this product.

NCBI GI #	194385600
NCBI GeneID	56165
NCBI Accession #	BAG65177.1
UniProt Primary Accession #	Q9BXT4
UniProt Related Accession #	Q9BXT4

NCBI Official Full Name	unnamed protein product
NCBI Official Synonym Full Names	tudor domain containing 1
NCBI Official Symbol	TDRD1
NCBI Official Synonym Symbols	CT41.1
UniProt Protein Name	Tudor domain-containing protein 1
UniProt Synonym Protein Names	Cancer/testis antigen 41.1; CT41.1
Protein Family	Tudor domain-containing protein
UniProt Gene Name	TDRD1
UniProt Synonym Gene Names	CT41.1
UniProt Entry Name	TDRD1_HUMAN
NCBI Protein Information	tudor domain-containing protein 1
NCBI Summary for TDRD1	This gene encodes a protein containing a tudor domain that is thought to function in the suppression of transposable elements during spermatogenesis. The related protein in mouse forms a complex with piRNAs and Piwi proteins to promote methylation and silencing of target sequences. This gene was observed to be upregulated by ETS transcription factor ERG in prostate tumors. [provided by RefSeq, Sep 2018]
UniProt Comments for TDRD1	TDRD1: Plays a central role during spermatogenesis by participating in the repression transposable elements and prevent their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and govern the methylation and subsequent repression of transposons. Required for the localization of Piwi proteins to the meiotic nuage. Involved in the piRNA metabolic process by ensuring the entry of correct transcripts into the normal piRNA pool and limiting the entry of cellular transcripts into the piRNA pathway. May act by allowing the recruitment of piRNA biogenesis or loading factors that ensure the correct entry of transcripts and piRNAs into Piwi proteins. Belongs to the TDRD1 family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Cancer Testis Antigen (CTA) Chromosomal Location of Human Ortholog: 10q25.3 Cellular Component: cytoplasm Molecular Function: metal ion binding; protein binding Biological Process: DNA methylation during gametogenesis; germ cell development; meiotic cell cycle; multicellular organismal development; RNA-mediated gene silencing; spermatogenesis
Research Articles on TDRD1	**1.** TDRD1 protein is expressed in the majority of human prostate tumors, but not in normal prostate tissue.
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