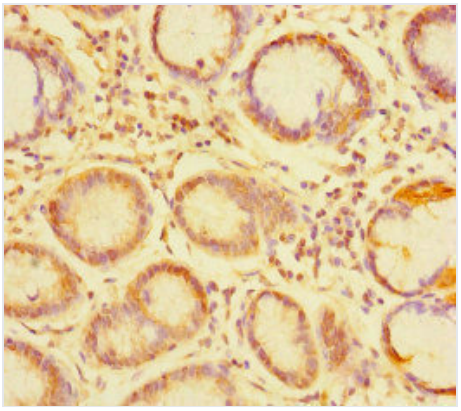
TDRD1 Antibody – Rabbit Polyclonal

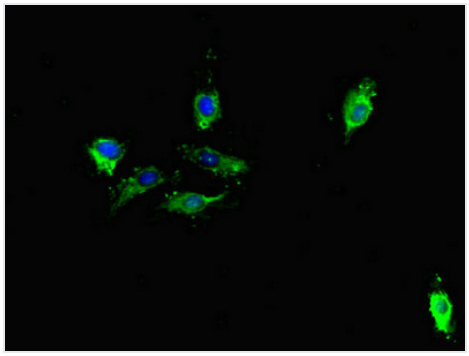
PRODUCT OVERVIEW

Product Name	TDRD1, Polyclonal Antibody
Full Product Name	TDRD1 Antibody
Product Gene Name	anti-TDRD1 antibody
Product Synonym Names	Tudor domain-containing protein 1; Cancer/testis antigen 41.1; CT41.1; TDRD1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: TDRD1 (MBS7045220) FITC Conjugated Antibody: TDRD1 (MBS7043748)
Matching Pairs	Unconjugated Antibody: TDRD1 (MBS7045220) Biotin Conjugated Antibody: TDRD1 (MBS7045580)
Matching Pairs	Unconjugated Antibody: TDRD1 (MBS7045220) HRP Conjugated Antibody: TDRD1 (MBS7046094)
Molecular Weight	79,170 Da
OMIM	605796
3D Structure	ModBase 3D Structure for Q9BXT4
Species	Human
Immunogen	Recombinant human Tudor domain-containing protein 1 protein
Conjugate	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-165663
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TDRD1 antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunofluorescence (IF)
Related Product Information for anti-TDRD1 antibody	Plays a central role during spermatogenesis by participating in the repression transposable elements and preventing 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 governs 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 (By similarity).

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.
Searchable Terms for TDRD1 purchase	MBS7045220 is an antibody targeting TDRD1. Also known as TDRD1 Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-TDRD1 antibody
Immunohistochemistry of paraffin-embedded human gastric cancer using MBS7045220 at dilution of 1:100



Immunofluorescence (IF) of anti-TDRD1 antibody
Immunofluorescent analysis of Hela cells using MBS7045220 at a dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

ADDITIONAL DETAILS

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

NCBI GI #	38505161
NCBI GeneID	56165
NCBI Accession #	NP_942090.1
UniProt Primary Accession #	Q9BXT4
UniProt Secondary Accession #	Q4G0Y8; Q6P518; Q9H7B3; A6NEN3; A6NMN2; B3KVI4; B4E2L5; D3DRC2
UniProt Related Accession #	Q9BXT4
GenBank Nucleotide #	NM_198795.1
NCBI Official Full Name	tudor domain-containing protein 1
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 is similar to a mouse gene that encodes a tudor domain protein. Alternatively spliced transcript variants have been described but their full length sequences have not been determined. [provided by RefSeq, Jul 2008]

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 Biological Process: DNA methylation during gametogenesis; germ cell development; RNA-mediated gene silencing; spermatogenesis
Research Articles on TDRD1	**1.** ERG induces epigenetic activation of Tudor domain-containing protein 1 (TDRD1) in ERG rearrangement-positive prostate cancer.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/tdrd1/7045220