

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse TDRD1 in direct ELISAs. In direct ELISAs, 100% cross-reactivity with recombinant human TDRD1 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 739206
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse TDRD1 Asn831-Lys960 Accession # Q99MV1
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

TDRD1 (Tudor domain containing protein 1; also MTR-1) is a 130-145 kDa member of the Tudor family of proteins. It is expressed in spermatocytes and spermatids, and forms part of an RNA-silencing complex that regulates gene expression. TDRD1, through its Tudor and MYND domains, binds methylated PIWI (P-element-induced wimpy testis) protein and PIWI-interacting RNA loading factor, respectively. This serves to promote the recruitment of germline-specific small RNAs into a PIWI ribonucleoprotein complex. Mouse TDRD1 is 1172 aa in length. It contains one MYND-type Zn finger region (aa 163-199), and four methyl-binding Tudor domains (aa 307-1032). Over aa 831-960, mouse TDRD1 shares 96% and 66% aa identity with rat and human TDRD1, respectively.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.