

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 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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