

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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

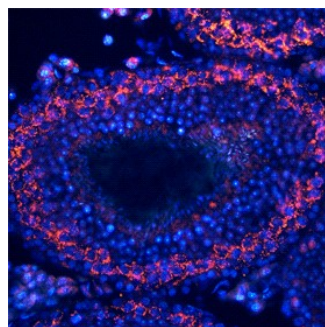
APPLICATIONS

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.

	Recommended Concentration	Sample
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



TDRD1 in Mouse Testis. TDRD1 was detected in perfusion fixed frozen sections of mouse testis using Rat Anti-Mouse TDRD1 Monoclonal Antibody (Catalog # MAB6296) at 25 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to spermatogonia. View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.