

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse TEX19.1 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human TEX19, recombinant mouse (rm) TEX19.2, or rmTEX11 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 678803
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse TEX19.1 Arg189-Pro351 Accession # Q99MV2
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.

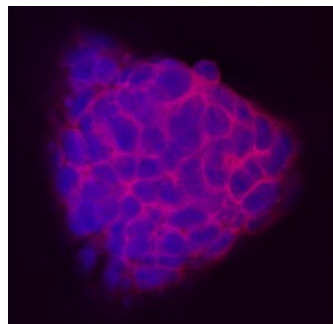
APPLICATIONS

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
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



TEX19.1 in D3 Mouse Cell Line. TEX19.1 was detected in immersion fixed D3 mouse embryonic stem cell line using Mouse TEX19.1 Monoclonal Antibody (Catalog # MAB6645) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

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

Testis-expressed protein 19.1 (TEX19.1; also Tex19a and Tex19) is a 40 kDa pluripotent stem cell molecule. Mouse TEX19.1 is 351 amino acids (aa) in length. The first conserved domain is localized on the N-terminal boundary of the protein and is 58 residues long. It is known as the MCP domain, and begins with an invariant MCPPVS motif. The second conserved domain, known as the VPTEL domain, begins with an invariant VPTEL motif and is 38 amino acids long. Mouse TEX19.1 shares 70% and 24% aa identity with rat and human Tex19.1, respectively. The protein is restricted to mammals and is expressed in testis, placenta, and ovary. It is expressed in early embryo and is later limited to the germ line. Tex19.1 has been shown to present in the cytoplasm of spermatogonia and early spermatocytes in adult mouse testes (1). The precise function of TEX19.1 is still unknown, but it is thought to be a new transcription factor regulating target genes responsible for pluripotency or it has a role in controlling the chromatin architecture of the pluripotent nucleus.

References:

- Ollinger R. *et. al.* (2008) PLoS 4(9):e1000199.