

DESCRIPTION

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|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human TEX19 in direct ELISAs and Western blots. In direct ELISAs, less than 2% cross-reactivity with recombinant human TEX11 is observed. |
| Source | Polyclonal Sheep IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant human TEX19 Met1-Ser164 Accession # Q8NA77 |
| 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. |

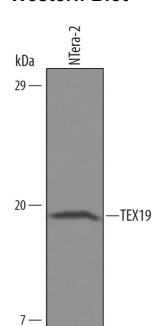
APPLICATIONS

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 |
|----------------------------|----------------------------------|---------------|
| Western Blot | 0.5 µg/mL | See Below |
| Immunocytochemistry | 10 µg/mL | See Below |

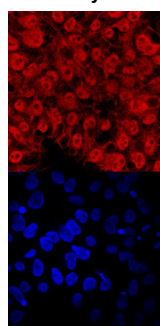
DATA

Western Blot



Detection of Human TEX19 by Western Blot. Western blot shows lysates of NTera-2 human testicular embryonic carcinoma cell line. PVDF Membrane was probed with 0.5 µg/mL of Human TEX19 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6319) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for TEX19 at approximately 18 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Immunocytochemistry



TEX19 in BG01V Human Stem Cells. TEX19 was detected in immersion fixed BG01V human embryonic stem cells using Human TEX19 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6319) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red, upper panel; Catalog # NL010) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei and cytoplasm. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

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|--------------------------------|--|
| Reconstitution | Sterile PBS to a final concentration of 0.2 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

TEX19 (testis expressed sequence 19) is an 18 kDa (predicted) protein with restricted cell expression. It is expressed in spermatogonia as well as pluripotent stem cells. TEX19 has been found in both nucleus and cytoplasm. Functionally, TEX19 is proposed to guard against inappropriately activated endogenous retroviruses during meiosis, and thus prevent deleterious mutations. Human TEX19 is 164 amino acids (aa) in length. There is no identifiable structural module within the protein. There are, however, two sequences that are conserved in TEX19 from multiple species. These are an MCP domain between aa 1-58, and a VPTEL domain that spans aa 120-157. Over aa 1-164, human TEX19 shares only 53% aa identity with a highly divergent and substantially larger 42 kDa mouse TEX19.1 protein.