10320 Camino Santa Fe, Suite G
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Tex19A Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55220

Specification

Tex19A Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	Q99MV2
Reactivity	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**40401**

Tex19A Polyclonal Antibody - Additional Information

Gene ID 73679

Other Names
Testis-expressed protein 19.1, mTex19.1, Testis-expressed protein 19A, Tex19.1 {ECO:0000312|MGI:MGI:1920929}, Tex19, Tex19a

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

Tex19A Polyclonal Antibody - Protein Information

Name Tex19.1 {ECO:0000312|MGI:MGI:1920929}

Synonyms Tex19, Tex19a

Function
Required during spermatogenesis and placenta development, participating in the repression of retrotransposable elements and preventing their mobilization (PubMed:18802469, PubMed:21103378, PubMed:23364048, PubMed:23674551, PubMed:28254886). With its paralog, Tex19.2, collaborates with the Piwi-interacting RNA (piRNA) pathway, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins. Interacts with Piwi proteins and directly binds piRNAs, a class of 24 to 30 nucleotide RNAs that are generated by a Dicer-independent mechanism and are primarily derived from transposons and other repeated sequence elements (PubMed:28254886). Also during

spermatogenesis, promotes, with UBR2, SPO11-dependent meiotic recombination (PubMed:28708824). Interacts with LINE-1 retrotransposon encoded LIRE1, stimulates LIRE1 polyubiquitination, mediated by UBR2, and degradation, inhibiting LINE- 1 retrotransposon mobilization (PubMed:28806172).

Cellular Location
Cytoplasm. Note=Was initially reported to localize in the nucleus (PubMed:18096721) However, it was later shown to localize in cytoplasm only (PubMed:18802469). Cytoplasmic localization is distinct from the meiotic nuage, also named P granule, a germ-cell-specific organelle required to repress transposon activity during meiosis (PubMed:18802469).

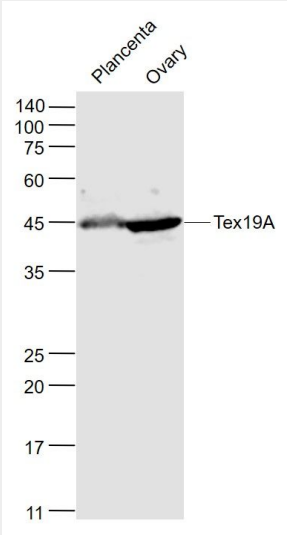
Tissue Location
Expressed in testis, placenta and ovary. Expressed in pluripotent stem cells. In testis, expression is highest in mitotic spermatogonia, decreases as spermatocytes progress through meiosis, and is present at low levels in round spermatids (at protein level)

Tex19A Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Tex19A Polyclonal Antibody - Images



Sample:
placenta(mouse) Lysate at 40 ug
ovary(mouse) Lysate at 40 ug
Primary: Anti- Tex19A (bs-13612R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

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Predicted band size: 45 kD
Observed band size: 45 kD