10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Tex19A Rabbit pAb

Tex19A Rabbit pAb
Catalog # AP55220

Product Information

Application	WB
Primary Accession	Q99MV2
Reactivity	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40401
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse Tex19A
Epitope Specificity	1-100/351
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The testis expressed gene 19 (Tex19) is duplicated in mouse and rat to give two genes Tex19.1 and Tex19.2. Tex19.1 expression is limited to pluripotent cells and germ cells, and is downregulated after differentiation. The Tex19.1 (-/-) knockout male mice have impaired spermatogenesis.

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
Dilution	WB=1:500-2000
Storage	Store at -20 °C 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 °C.

Protein Information

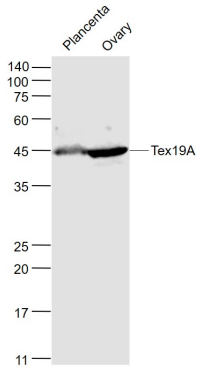
Name	Tex19.1 {ECO:0000312|MGI:MGI:1920929}
Synonyms	Tex19, Tex19a

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)

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Images



Sample: placenta(mouse) Lysate at 40 ug ovary(mouse) Lysate at 40 ug Primary: Anti- Tex19A (AP55220) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kD Observed band size: 45 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.