For Research Use Only

TEX14 Polyclonal antibody

Catalog Number:18351-1-AP 6 Publications

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Basic Information

Catalog Number:
18351-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG13177

GenBank Accession Number:
BC040526

GeneID (NCBI):
56155

UNIPROT ID:
Q8IWB6

Full Name:
testis expressed 14

Calculated MW:
957aa,107 kDa; 1497aa,168 kDa

Observed MW:
180-200 kDa, 106 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IHC 1:400-1:1600

Applications

Tested Applications:
IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse

Cited Species:
human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : mouse testis tissue,

Background Information

Tex14 is required both for the formation of intercellular bridges during meiosis and for kinetochore-microtubule attachment during mitosis. Intercellular bridges are evolutionarily conserved structures that connect differentiating germ cells and are required for spermatogenesis and male fertility. Tex14 acts by promoting the conversion of midbodies into intercellular bridges via its interaction with CEP55: interaction with CEP55 inhibits the interaction between CEP55 and PDCD6IP/ALIX and TSG101, blocking cell abscission and leading to transform midbodies into intercellular bridges.Tex14 also plays a role during mitosis: recruited to kinetochores by PLK1 during early mitosis and regulates the maturation of the outer kinetochores and microtubule attachment. Tex14 has several variant isoforms with the MW from about 100 kDa to 168 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Wen-Long Lei	34580275	Cell Death Dis	IF
Roseanne Rosario	31659914	FASEB J	IF
Laura Pulze	32751344	Int J Mol Sci	WB,IF

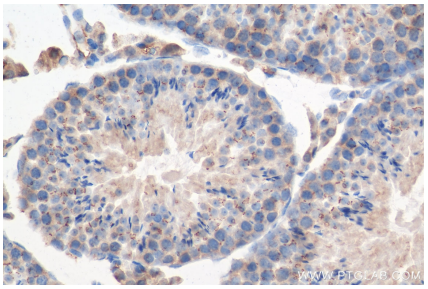
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

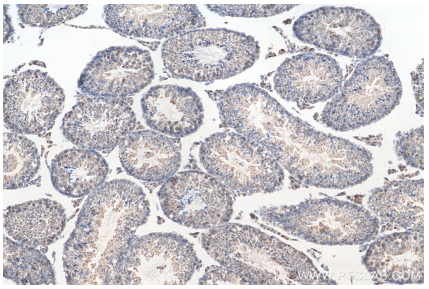
***** 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 18351-1-AP (TEX14 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 18351-1-AP (TEX14 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).