

TCTEX1D3 Antibody
Catalog # ASC11518**Specification****TCTEX1D3 Antibody - Product Information**

Application	WB, IF
Primary Accession	Q8IZS6
Other Accession	NP_777570 , 28372535
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	22 kDa KDa
Application Notes	TCTEX1D3 antibody can be used for detection of TCTEX1D3 by Western blot at 1 µg/mL. For immunofluorescence start at 20 µg/mL.

TCTEX1D3 Antibody - Additional InformationGene ID **6991****Target/Specificity**

TCTE3; TCTEX1D3 is predicted to not cross-react with other members of the TCTEX-type family

Reconstitution & Storage

TCTEX1D3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

TCTEX1D3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TCTEX1D3 Antibody - Protein InformationName DYNLT2 ([HGNC:11695](#))

Synonyms TCTE3, TCTEX1D3

Function

May be an accessory component of axonemal dynein and cytoplasmic dynein 1 (PubMed:11278908, PubMed:12584439). Candidate for involvement in male sterility (By similarity).

Cellular Location

Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:P11985}. Cytoplasmic granule {ECO:0000250|UniProtKB:P11985}. Membrane {ECO:0000250|UniProtKB:P11985}; Peripheral

membrane protein {ECO:0000250|UniProtKB:P11985}. Note=Found on the surface of sperm tail. Stored in cytoplasmic granules during spermatogenesis {ECO:0000250|UniProtKB:P11985}

Tissue Location

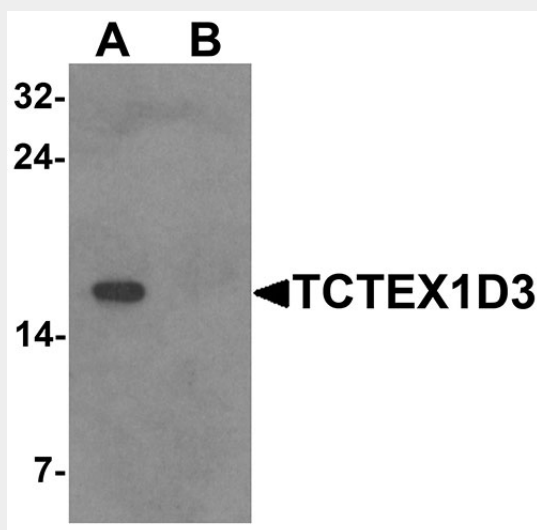
Expressed predominantly in testis. Also expressed in brain, lung and trachea.

TCTEX1D3 Antibody - Protocols

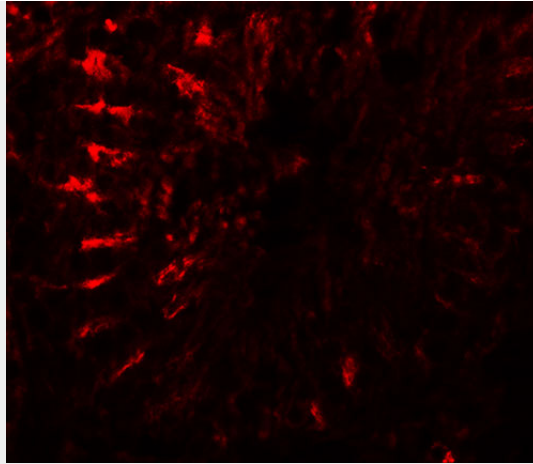
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TCTEX1D3 Antibody - Images



Western blot analysis of TCTEX1D3 in EL4 cell lysate with TCTEX1D3 antibody at 1 μ g/mL in (A) the absence and (B) the presence of blocking peptide.



Immunofluorescence of TCTEX1D3 in human testis tissue with TCTEX1D3 antibody at 20 µg/mL.

TCTEX1D3 Antibody - Background

TCTEX1D3 Antibody: Dyneins are multi-subunit, high molecular weight ATPases that interact with microtubules to generate force by converting the chemical energy of ATP into the mechanical energy of movement. Cytoplasmic or axonemal Dynein is an approximately 12 subunit complex of two heavy chains, two intermediate chains to anchor Dynein to its cargo, four smaller intermediate chains and several light chains. It performs functions necessary for cell survival such as organelle transport and centrosome assembly. TCTEX1 is a cytoplasmic dynein light chain found in a complex with Na⁺ CP type X (SCN10A). TCTEX1D3, also called TCTE3, has been identified as a gene responsible for congenital diaphragmatic hernia (CDH).

TCTEX1D3 Antibody - References

He Y, Francis F, Myers KA, et al. Role of cytoplasmic dynein in the axonal transport of microtubules and neurofilaments. *J. Cell Biol.* 2005; 168:697-703.
Li J, Lee WL, and Cooper JA. NudEL targets dynein to microtubule ends through LIS1. *Nat. Cell Biol.* 2005; 7:686-90.
Watanabe TK, Fujiwara T, Shimizu F, et al. Cloning, expression, and mapping of TCTEL1, a putative human homologue of murine Tcte1 to 6q. *Cytogenet. Cell Genet.* 1996; 73:153-6.
Chuang JZ, Yeh TY, Bollati F, et al. The dynein light chain Tctex-1 has a dynein-independent role in actin remodeling during neurite outgrowth. *Dev. Cell* 2005; 9:75-86.