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TCTEX1D4 Antibody
Catalog # ASC11519

Specification

TCTEX1D4 Antibody - Product Information

Application	**WB, IF**
Primary Accession	Q5JR98
Other Accession	NP_001013654, 61966721
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**24 kDa KDa**
Application Notes	**TCTEX1D4 antibody can be used for detection of TCTEX1D4 by Western blot at 1 µg/mL. For immunofluorescence start at 20 µg/mL.**

TCTEX1D4 Antibody - Additional Information

Gene ID **343521**

Target/Specificity
TCTEX1D4; TCTEX1D4 is predicted to not cross-react with other members of the TCTEX-type family.

Reconstitution & Storage
TCTEX1D4 antibody can be stored at 4℃ for three months and -20℃, 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
TCTEX1D4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TCTEX1D4 Antibody - Protein Information

Name DYNLT4 (HGNC:32315)

Synonyms TCTEX1D4

Cellular Location
Cell projection, cilium, flagellum. Cytoplasmic vesicle, secretory vesicle, acrosome. Cytoplasm, cytoskeleton, cilium axoneme. Cytoplasm {ECO:0000250|UniProtKB:Q8CDY7}. Nucleus {ECO:0000250|UniProtKB:Q8CDY7} Cytoplasm, cytoskeleton, microtubule organizing center. Note=Present along the entire length of the flagellum, including principal and endpiece, and more predominantly in the midpiece region.

Tissue Location

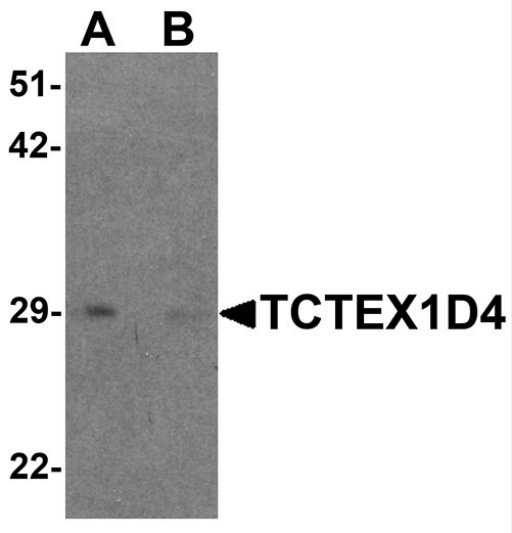
Ubiquitously expressed (PubMed:16982625). Expressed in testis (at protein level) (PubMed:23789093)

TCTEX1D4 Antibody - Protocols

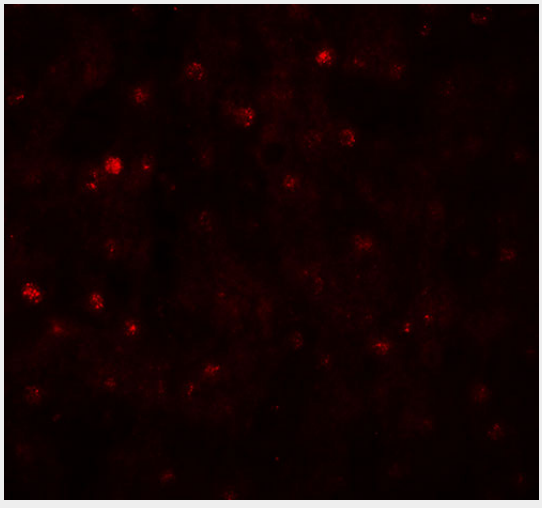
Provided below are standard protocols that you may find useful for product applications.

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

TCTEX1D4 Antibody - Images



Western blot analysis of TCTEX1D4 in mouse liver tissue lysate with TCTEX1D4 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



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Immunofluorescence of TCTEX1D4 in human liver tissue with TCTEX1D4 antibody at 20 µg/mL.

TCTEX1D4 Antibody - Background

TCTEX1D4 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). TCTEX1D4, also called TCTEX2 beta, interacts with different members of the TGF-beta receptor family, and when overexpressed, inhibits TGF-beta signaling.

TCTEX1D4 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.