

Tekt3 Antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI14176

Product Information

Application	WB
Primary Accession	Q6X6Z7
Other Accession	NM_027660 , NP_081936
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56673

Additional Information

Gene ID	71062
Alias Symbol	4933407G07Rik
Other Names	Tektin-3, Tekt3
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Tekt3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Tekt3 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Tekt3
Function	Microtubule inner protein (MIP) part of the dynein-decorated doublet microtubules (DMTs) in cilia and flagellar axoneme (PubMed: 37295417 , PubMed: 37865089 , PubMed: 37989994). Forms filamentous polymers in the walls of ciliary and flagellar microtubules (PubMed: 37295417). Required for normal sperm mobility (PubMed: 18951373).
Cellular Location	Cytoplasm, cytoskeleton, cilium axoneme {ECO:0000250 UniProtKB:A6H782}. Cytoplasm, cytoskeleton, flagellum axoneme. Cytoplasmic vesicle, secretory vesicle, acrosome outer membrane {ECO:0000250 UniProtKB:A6H782, ECO:0000250 UniProtKB:Q4V8G8}; Peripheral membrane protein {ECO:0000250 UniProtKB:Q4V8G8}. Note=In spermatozoa, preferentially

localizes to the flagella, but also found in the head (By similarity) In the sperm flagellum, localizes to the periaxonemal region where it associates with the mitochondrial sheath and outer dense fibers (By similarity). Not detected in the central axonemal region of the flagellum (By similarity). Associates with the acrosome membrane in the equatorial segment of the sperm head (By similarity). Also detected just below the plasma membrane in the post-acrosomal region where it might localize to the postacrosomal dense lamina (By similarity) However, other studies report little or no expression in the postacrosomal region (By similarity). Translocates from the postacrosomal region to the equatorial segment after sperm activation (By similarity). Retained in the postacrosomal region, but not the equatorial segment, following the acrosome reaction (By similarity) Some studies report strong expression in the anterior cap region (By similarity). However, other studies report little or no expression in the acrosomal cap (By similarity). {ECO:0000250|UniProtKB:A6H782, ECO:0000250|UniProtKB:Q4V8G8, ECO:0000250|UniProtKB:Q9BXF9}

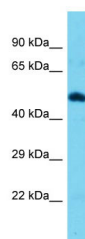
Tissue Location

Expressed preferentially in testis. Expressed predominantly in late pachytene spermatocytes and early round spermatids (PubMed:14735490). Expressed in spermatozoa (PubMed:36708031).

References

Roy A.,et al.Mol. Reprod. Dev. 67:295-302(2004).
Roy A.,et al.Mol. Reprod. Dev. 76:453-459(2009).

Images



Host: Rabbit
Target Name: Tekt3
Sample Tissue: Mouse Muscle lysates
Antibody Dilution: 1.0µg/ml

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