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

TEKT5 Antibody

Catalog # ASC11338

Product Information

Application	WB, E, IHC-P
Primary Accession	Q96M29
Other Accession	NP_653275, 21389569
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	56294
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	TEKT5 antibody can be used for detection of TEKT5 by Western blot at 0.5 g/mL. Antibody can also be used for immunohistochemistry starting at 5 g/mL.

Additional Information

Gene ID	146279
Other Names	Tektin-5, TEKT5
Target/Specificity	TEKT5; This antibody is predicted to not cross-react with other Tektin protein family members
Reconstitution & Storage	TEKT5 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	TEKT5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TEKT5
Function	Sperm-specific microtubule inner protein (MIP) part of the dynein-decorated doublet microtubules (DMTs) in flagellar axoneme. Forms an extensive interaction network in different conformations that reinforces the helix bundle composed by other tektin proteins (TEKT1 to TEKT4) and MIPs to anchor the tektin bundle onto the tubulin wall of A- tubule of the sperm flagellum.
Cellular Location	Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250|UniProtKB:G5E8A8}

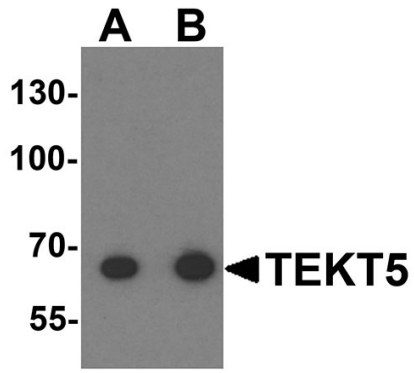
Background

TEKT5 Antibody: Tektins are insoluble alpha-helical proteins related to intermediate filament proteins and are essential for the assembly of cilia and flagella. Tektin-5 (TEKT5) is a recently identified member of the Tektin family. It is predominantly expressed in testis, and its expression is upregulated during testis development. It is present in sperm flagella but not in heads, suggesting that it may act as a middle component required for flagellar stability and sperm mobility.

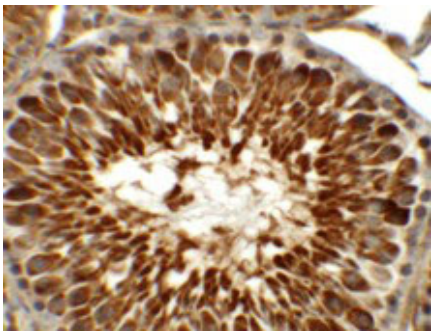
References

Amos LA. The tektin family of microtubule-stabilizing proteins. Genome Biol. 2008; 9:229.
Murayama E, Yamamoto E, Kaneko T, et al. Tektin5, a new Tektin family member, is a component of the middle piece of flagella in rat spermatozoa. Mol. Reprod. Dev. 2008; 75:650-8.

Images



Western blot analysis of TEKT5 in 3T3 cell lysate with TEKT5 antibody at (A) 0.25 and (B) 0.5 µg/mL.



Immunohistochemistry of TEKT5 in rat testis tissue with TEKT5 antibody at 5 µg/mL.

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