

TEKT5 Antibody

Catalog # ASC11338

Specification

TEKT5 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Host Clonality Isotype

096M29 NP 653275, 21389569 Human, Mouse, Rat **Rabbit Polyclonal** laG **Application Notes**

TEKT5 antibody can be used for detection of TEKT5 by Western blot at 0.5 μg/mL.

Antibody can also be used for

WB, IHC-P, E

immunohistochemistry starting at 5 µg/mL.

TEKT5 Antibody - Additional Information

Gene ID 146279

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°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

TEKT5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TEKT5 Antibody - 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}

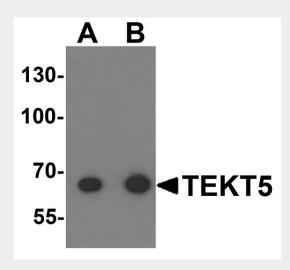
TEKT5 Antibody - Protocols



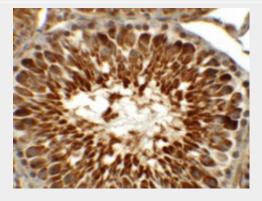
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

TEKT5 Antibody - Images



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



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

TEKT5 Antibody - 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.

TEKT5 Antibody - 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.