

TULP3 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54565

Specification

TULP3 Polyclonal Antibody - Product Information

Application WB, IHC-P, IHC-F, IF, ICC, E Primary Accession 075386

Reactivity
Rost
Clonality
Calculated MW
Physical State
Rat, Dog
Rabbit
Polyclonal
So KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human TULP3

Epitope Specificity 251-350/442

Isotype Purity

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION

Nucleus. Cell membrane. Cell projection, cilium (By similarity). Cytoplasm (By similarity).

similarity). Secreted (By similarity).
Note=Does not have a cleavable signal

peptide and is secreted by a

non-conventional pathway (By similarity). Translocates from the plasma membrane to the nucleus upon activation of guanine

nucleotide-binding protein G(q) subunit alpha.

SIMILARITY Belongs to the TUB family.

Important Note

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

affinity purified by Protein A

Mutations in the mouse Tub gene gradually lead to obesity, strongly resembling the late-onset obesity observed in the human population. In addition to excessive deposition of adipose tissue, mice with the Tub phenotype also suffer retinal degeneration and neurosensory hearing loss. A human homolog of the Tub gene has been identified, as have three related proteins, called Tubby-like protein 1 (TULP1), TULP2 and TULP3. When compared to TULP1 and TULP2, TULP3 has a wider tissue expression and is phylogenetically more similar to Tub than either TULP1 or TULP2. TULP1, expressed specifically in the retina, maps to the chromosomal region known to be involved in retinitis pigmentosa, while TULP2 maps within the minimal interval for the rod-cone dystrophy. TULP3 maps to human chromosome 12p13, and shares 69% homology to mouse TULP3. Human RNA from testis, ovary, thyroid and spinal cord contain highly detectable levels of TULP3 transcripts. In the retina, TULP3 is expressed specifically in the inner nuclear layer and ganglion cell layer. TULP1, TULP2 and TULP3 may comprise a unique family of bipartite transcription factors.



TULP3 Polyclonal Antibody - Additional Information

Gene ID 7289

Other Names

Tubby-related protein 3, Tubby-like protein 3, TULP3 (HGNC:12425), TUBL3

Target/Specificity

Expressed at high levels in testis, ovaries, thyroid, and spinal chord.

Dilution

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<span class ="dilution_WB">WB~~1:1000</span><br \><span class
="dilution_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution_IF">IF~~1:50~200</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span><br \><span class ="dilution_ICC">ICC~~N/A</span>
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Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

TULP3 Polyclonal Antibody - Protein Information

Name TULP3 (HGNC:12425)

Synonyms TUBL3

Function

Negative regulator of the Shh signaling transduction pathway: recruited to primary cilia via association with the IFT complex A (IFT- A) and is required for recruitment of G protein-coupled receptor GPR161 to cilia, a promoter of PKA-dependent basal repression machinery in Shh signaling. Binds to phosphorylated inositide (phosphoinositide) lipids. Both IFT-A- and phosphoinositide-binding properties are required to regulate ciliary G protein-coupled receptor trafficking. During adipogenesis, regulates ciliary trafficking of FFAR4 in preadipocytes.

Cellular Location

Nucleus. Cell membrane. Cell projection, cilium. Cytoplasm. Secreted. Note=Does not have a cleavable signal peptide and is secreted by a non-conventional pathway (By similarity). Translocates from the plasma membrane to the nucleus upon activation of guanine nucleotide-binding protein G(g) subunit alpha

Tissue Location

Expressed at high levels in testis, ovaries, thyroid, and spinal cord.

TULP3 Polyclonal Antibody - Protocols

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

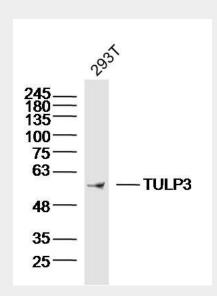
- Western Blot
- Blocking Peptides
- Dot Blot



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- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

TULP3 Polyclonal Antibody - Images



Sample:293T Cell (human) Lysate at 40 ug Primary: Anti-TULP3(bs-11605R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD Observed band size: 50 kD