

TULP3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP19016b**Specification**

TULP3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O75386](#)**TULP3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 7289**Other Names**

Tubby-related protein 3, Tubby-like protein 3, TULP3, TUBL3

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TULP3 Antibody (C-term) Blocking Peptide - 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(q) subunit alpha

Tissue Location

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

TULP3 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

TULP3 Antibody (C-term) Blocking Peptide - Images

TULP3 Antibody (C-term) Blocking Peptide - Background

This gene encodes a member of the tubby gene family of bipartite transcription factors. Members of this family have been identified in plants, vertebrates, and invertebrates, and they share a conserved N-terminal transcription activation region and a conserved C-terminal DNA and phosphatidylinositol-phosphate binding region. The encoded protein binds to phosphoinositides in the plasma membrane via its C-terminal region and probably functions as a membrane-bound transcription regulator that translocates to the nucleus in response to phosphoinositide hydrolysis, for instance, induced by G-protein-coupled-receptor signaling. It plays an important role in neuronal development and function. Two transcript variants encoding distinct isoforms have been identified for this gene.

TULP3 Antibody (C-term) Blocking Peptide - References

Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) Ikeda, A., et al. J. Cell. Sci. 115 (PT 1), 9-14 (2002) Santagata, S., et al. Science 292(5524):2041-2050(2001) Ikeda, S., et al. Invest. Ophthalmol. Vis. Sci. 40(11):2706-2712(1999) Nishina, P.M., et al. Genomics 54(2):215-220(1998)