

**IFT81 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP10515b****Specification**

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**IFT81 Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession [Q8WYAO](#)  
Other Accession [NP\\_113661.2](#), [NP\\_001137251.1](#), [NP\\_054774.2](#)

**IFT81 Antibody (C-term) Blocking Peptide - Additional Information**

**Gene ID** 28981

**Other Names**

Intraflagellar transport protein 81 homolog, Carnitine deficiency-associated protein expressed in ventricle 1, CDV-1, IFT81, CDV1

**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.

**IFT81 Antibody (C-term) Blocking Peptide - Protein Information**

**Name** IFT81

**Synonyms** CDV1

**Function**

Component of the intraflagellar transport (IFT) complex B: together with IFT74, forms a tubulin-binding module that specifically mediates transport of tubulin within the cilium. Binds tubulin via its CH (calponin-homology)-like region (PubMed:<a href="http://www.uniprot.org/citations/23990561" target="\_blank">23990561</a>). Required for ciliogenesis (PubMed:<a href="http://www.uniprot.org/citations/27666822" target="\_blank">27666822</a>, PubMed:<a href="http://www.uniprot.org/citations/23990561" target="\_blank">23990561</a>). Required for proper regulation of SHH signaling (PubMed:<a href="http://www.uniprot.org/citations/27666822" target="\_blank">27666822</a>). Plays an important role during spermatogenesis by modulating the assembly and elongation of the sperm flagella (By similarity).

**Cellular Location**

Cell projection, cilium. Cytoplasm {ECO:0000250|UniProtKB:O35594}

**Tissue Location**

Highly expressed in testis, moderately in ovary, heart, liver, skeletal muscle, kidney and pancreas, low in prostate, brain, placenta and lung and not detected in spleen, thymus, small intestine and colon. Isoform CDV-1R is abundantly expressed in testis

**IFT81 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**IFT81 Antibody (C-term) Blocking Peptide - Images****IFT81 Antibody (C-term) Blocking Peptide - Background**

Isoform CDV-1 may be involved in cardiac hypertrophy caused by carnitine deficiency (By similarity). Isoform CDV-1R appears to play a role in development of the testis and spermatogenesis (By similarity).

**IFT81 Antibody (C-term) Blocking Peptide - References**

Melzer, D., et al. PLoS Genet. 4 (5), E1000072 (2008) :Lamesch, P., et al. Genomics 89(3):307-315(2007) Peng, J., et al. Mol. Biol. Rep. 29(4):353-362(2002) Higashi, M., et al. Mamm. Genome 11(12):1053-1057(2000)