

**ACTL7A Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP10469a****Specification**

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**ACTL7A Antibody (N-term) Blocking Peptide - Product Information**

Primary Accession [O9Y615](#)  
Other Accession [NP\\_006678.1](#)

**ACTL7A Antibody (N-term) Blocking Peptide - Additional Information**

**Gene ID** 10881

**Other Names**

Actin-like protein 7A, Actin-like-7-alpha, ACTL7A

**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.

**ACTL7A Antibody (N-term) Blocking Peptide - Protein Information**

**Name** ACTL7A

**Function**

May play an important role in formation and fusion of Golgi- derived vesicles during acrosome biogenesis.

**Cellular Location**

Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q9QY84}. Golgi apparatus {ECO:0000250|UniProtKB:Q9QY84}. Cytoplasm {ECO:0000250|UniProtKB:Q9QY84}. Nucleus {ECO:0000250|UniProtKB:Q9QY84} Cytoplasmic vesicle, secretory vesicle, acrosome.  
Note=Detected at the Golgi apparatus during acrosome biogenesis. Detected at the subacrosomal layer in round spermatids. Detected in sperm head and tail {ECO:0000250|UniProtKB:Q9QY84}

**Tissue Location**

Strongly expressed in testis. Also expressed in other tissues.

**ACTL7A Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **ACTL7A Antibody (N-term) Blocking Peptide - Images**

#### **ACTL7A Antibody (N-term) Blocking Peptide - Background**

ACTL7A is a member of a family of actin-related proteins (ARPs) which share significant amino acid sequence identity to conventional actins. Both actins and ARPs have an actin fold, which is an ATP-binding cleft, as a common feature. The ARPs are involved in diverse cellular processes, including vesicular transport, spindle orientation, nuclear migration and chromatin remodeling. ACTL7A (ACTL7A), and related gene, ACTL7B, are intronless, and are located approximately 4 kb apart in a head-to-head orientation within the familial dysautonomia candidate region on 9q31. Based on mutational analysis of the ACTL7A gene in patients with this disorder, it was concluded that it is unlikely to be involved in the pathogenesis of dysautonomia. The ACTL7A gene is expressed in a wide variety of adult tissues, however, its exact function is not known.

#### **ACTL7A Antibody (N-term) Blocking Peptide - References**

Aberg, K., et al. Hum. Biol. 80(2):99-123(2008) Humphray, S.J., et al. Nature 429(6990):369-374(2004) Garvalov, B.K., et al. J. Cell Biol. 161(1):33-39(2003) Coutts, A.S., et al. J. Cell. Sci. 116 (PT 5), 897-906 (2003) : Chadwick, B.P., et al. Genomics 58(3):302-309(1999)