

MYO3B Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP7155a**Specification**

MYO3B Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q8WXR4](#)**MYO3B Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 140469**Other Names**

Myosin-IIIb, MYO3B

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7155a](/product/products/AP7155a) was selected from the N-term region of human MYO3B. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

MYO3B Antibody (N-term) Blocking Peptide - Protein Information**Name** MYO3B**Function**

Probable actin-based motor with a protein kinase activity. Required for normal cochlear hair bundle development and hearing. Plays an important role in the early steps of cochlear hair bundle morphogenesis. Influences the number and lengths of stereocilia to be produced and limits the growth of microvilli within the forming auditory hair bundles thereby contributing to the architecture of the hair bundle, including its staircase pattern. Involved in the elongation of actin in stereocilia tips by transporting the actin regulatory factor ESPN to the plus ends of actin filaments.

Cellular Location

Cytoplasm, cytoskeleton. Cell projection, stereocilium {ECO:0000250|UniProtKB:Q1EG27}

Tissue Location

Expressed in retina, kidney and testis.

MYO3B Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

MYO3B Antibody (N-term) Blocking Peptide - Images**MYO3B Antibody (N-term) Blocking Peptide - Background**

Similar to other class III myosins, MYO3B contains an N-terminal kinase domain, followed by motor, neck, and tail domains. The MYO3B gene generates a variety of splice variants that contain 1 or 2 calmodulin-binding (IQ) motifs in the neck domain and 1 of 3 domains in the tail domain. Northern blot analysis showed expression of a 7-kb MYO3B transcript in human retina, but not in an RPE cell line; two 6- and 7-kb MYO3B transcripts in kidney; and a 4-kb transcript in testis.

MYO3B Antibody (N-term) Blocking Peptide - References

Dose, A.C., et al., Genomics 79(5):621-624 (2002).