

ESPN Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6876a**Specification**

ESPN Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [B1AK53](#)**ESPN Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 83715**Other Names**

Espn, Autosomal recessive deafness type 36 protein, Ectoplasmic specialization protein, ESPN, DFNB36

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6876a](/products/AP6876a) was selected from the N-term region of human ESPN. 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.

ESPN Antibody (N-term) Blocking Peptide - Protein Information**Name** ESPN**Synonyms** DFNB36**Function**

Multifunctional actin-bundling protein. Plays a major role in regulating the organization, dimension, dynamics and signaling capacities of the actin filament-rich microvilli in the mechanosensory and chemosensory cells (PubMed: [29572253](http://www.uniprot.org/citations/29572253)). Required for the assembly and stabilization of the stereociliary parallel actin bundles. Plays a crucial role in the formation and maintenance of inner ear hair cell stereocilia (By similarity). Involved in the elongation of actin in stereocilia (PubMed: [29572253](http://www.uniprot.org/citations/29572253)). In extrastricular hair cells, required for targeting MYO3B to stereocilia tips, and for regulation of stereocilia diameter and staircase formation.

Cellular Location

Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q9ET47}. Cell projection, stereocilium. Cell projection, microvillus

ESPN Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

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

ESPN is a multifunctional actin-bundling protein. It plays a major role in regulating the organization, dimensions, dynamics, and signaling capacities of the actin filament-rich, microvillus-type specializations that mediate sensory transduction in various mechanosensory and chemosensory cells.

ESPN Antibody (N-term) Blocking Peptide - References

Boulouiz,R., et.al., Am. J. Med. Genet. A 146A (23), 3086-3089 (2008)