

CAPZA1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP7488c**Specification**

CAPZA1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P52907](#)**CAPZA1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 829**Other Names**

F-actin-capping protein subunit alpha-1, CapZ alpha-1, CAPZA1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7488c](/products/AP7488c) was selected from the Center region of human CAPZA1. 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.

CAPZA1 Antibody (Center) Blocking Peptide - Protein Information**Name** CAPZA1 ([HGNC:1488](#))**Function**

F-actin-capping proteins bind in a Ca(2+)-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments. May play a role in the formation of epithelial cell junctions (PubMed:[22891260](http://www.uniprot.org/citations/22891260)). Forms, with CAPZB, the barbed end of the fast growing ends of actin filaments in the dynactin complex and stabilizes dynactin structure. The dynactin multiprotein complex activates the molecular motor dynein for ultra-processive transport along microtubules (By similarity).

Cellular Location

Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:A0PFK5}

CAPZA1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CAPZA1 Antibody (Center) Blocking Peptide - Images

CAPZA1 Antibody (Center) Blocking Peptide - Background

CAPZA1 is a member of the F-actin capping protein alpha subunit family. The protein regulates growth of the actin filament by capping the barbed end of growing actin filaments.

CAPZA1 Antibody (Center) Blocking Peptide - References

Maun,N.A., Speicher,D.W. Biochemistry 35 (11), 3518-3524 (1996)Barron-Casella,E.A., Torres,M.A. J. Biol. Chem. 270 (37), 21472-21479 (1995)Canton,D.A., Olsten,M.E. J. Biol. Chem. 281 (47), 36347-36359 (2006)