

AFAP1-Y451 Blocking Peptide
Synthetic peptide
Catalog # BP20715a**Specification****AFAP1-Y451 Blocking Peptide - Product Information**Primary Accession [Q8N556](#)**AFAP1-Y451 Blocking Peptide - Additional Information**

Gene ID 60312

Other Names

Actin filament-associated protein 1, 110 kDa actin filament-associated protein, AFAP-110, AFAP1, AFAP

Target/Specificity

The synthetic peptide sequence is selected from aa 444-457 of HUMAN AFAP1

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.

AFAP1-Y451 Blocking Peptide - Protein Information

Name AFAP1

Synonyms AFAP

Function

Can cross-link actin filaments into both network and bundle structures (By similarity). May modulate changes in actin

AFAP1-Y451 Blocking Peptide - Background

Can cross-link actin filaments into both network and bundle structures (By similarity). May modulate changes in actin filament integrity and induce lamellipodia formation. May function as an adapter molecule that links other proteins, such as SRC and PKC to the actin cytoskeleton. Seems to play a role in the development and progression of prostate adenocarcinoma by regulating cell-matrix adhesions and migration in the cancer cells.

AFAP1-Y451 Blocking Peptide - References

Han B.,et al.J. Biol. Chem. 279:54793-54801(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).
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Olsen J.V.,et al.Cell 127:635-648(2006).

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Cellular Location

Cytoplasm, cytoskeleton, stress fiber

Tissue Location

Low expression in normal breast epithelial cell line MCF-10A and in tumorigenic breast cancer cell lines MCF-7, T-47D and ZR-75-1. Highly expressed in the invasive breast cancer cell lines MDA-MB-231 and MDA-MB-435. Overexpressed in prostate carcinoma

AFAP1-Y451 Blocking Peptide - Protocols

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

- [Blocking Peptides](#)