

**AFAP1-Y451 Blocking Peptide**  
Synthetic peptide  
Catalog # BP20714b**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).  
Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.  
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](#)