

# AFAP1-Y451 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP20714b

#### **Product Information**

Application WB, E
Primary Accession Q8N556

**Reactivity** Human, Rat, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Clone Names RB45038
Calculated MW 80725

### **Additional Information**

**Gene ID** 60312

Other Names Actin filament-associated protein 1, 110 kDa actin filament-associated protein,

AFAP-110, AFAP1, AFAP

**Target/Specificity**This antibody is generated from a rabbit immunized with a KLH conjugated

synthetic peptide between 444-477 amino acids from human.

**Dilution** WB~~1:1000 E~~Use at an assay dependent concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** AFAP1-Y451 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

#### **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 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.

**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

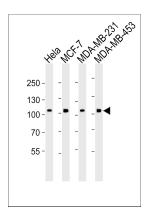
## **Background**

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.

#### 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).

## **Images**



Western blot analysis of lysates from Hela, MCF-7, MDA-MB-231, MDA-MB-453 cell line (from left to right), using AFAP1-Y451Cat. #AP20714b). AP20714b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.