

CPTC-FSCN1-1 (CAB080327)

Uniprot ID: [Q16658](#)

Protein name: FSCN1_HUMAN

Full name: Fascin

Tissue specificity: Ubiquitous.

Function: Actin-binding protein that contains 2 major actin binding sites (PubMed:21685497, PubMed:23184945). Organizes filamentous actin into parallel bundles (PubMed:20393565, PubMed:21685497, PubMed:23184945). Plays a role in the organization of actin filament bundles and the formation of microspikes, membrane ruffles, and stress fibers (PubMed:22155786). Important for the formation of a diverse set of cell protrusions, such as filopodia, and for cell motility and migration (PubMed:20393565, PubMed:21685497, PubMed:23184945). Mediates reorganization of the actin cytoskeleton and axon growth cone collapse in response to NGF (PubMed:22155786).

Subcellular location:

Cytoplasm > Cytosol (*experimental evidence*)

Cytoplasm > Cell cortex (*experimental evidence*)

Cytoplasm > Cytoskeleton (*experimental evidence*)

Cytoplasm > Cytoskeleton > Stress fiber (*experimental evidence*)

Cell projection > Filopodium (*experimental evidence*)

Cell projection > Invadopodium (*experimental evidence*)

Cell projection > Microvillus (*experimental evidence*)

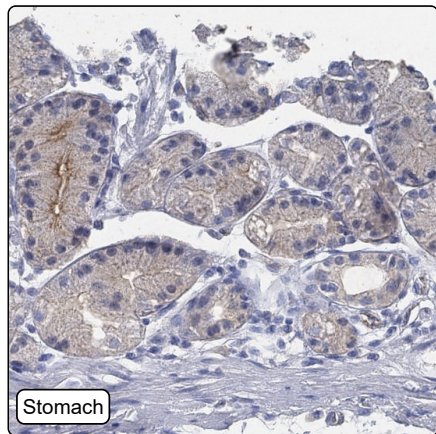
Cell junction (*experimental evidence*)

NOTE: Colocalized with RUFY3 and F-actin at filopodia of the axonal growth cone. Colocalized with DBN1 and F-actin at the transitional domain of the axonal growth cone (By similarity).

Protein existence: Experimental evidence at protein level

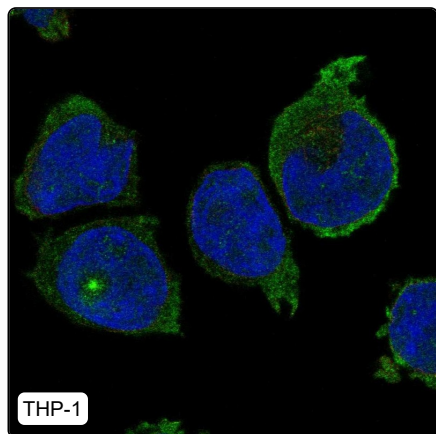
Comment:

Immunohistochemistry



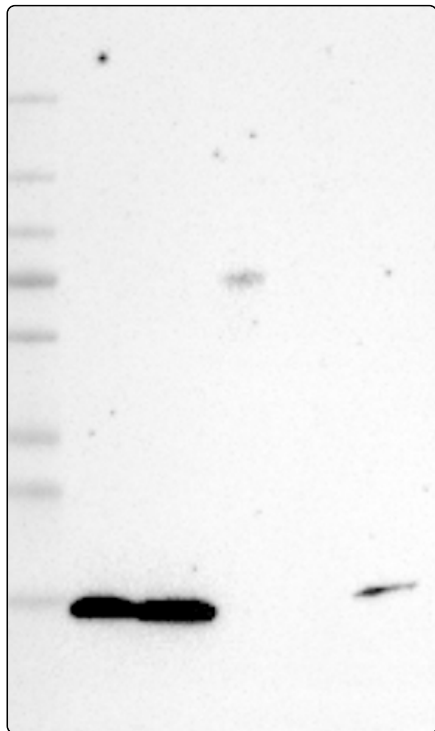
IHC protocol:	HIER pH6, Dilution 1:325
IHC test staining:	Cytoplasmic and membranous positivity in GI and CNS.
Literature conformance:	Not consistent with gene/protein characterization data
Literature significance:	
RNA similarity:	Very low consistency between antibody staining and RNA expression data
RNA tissue specificity:	Low tissue specificity
RNA tissue distribution:	Detected in many
IHC Sibling similarity:	Other antibody shows dissimilar IHC staining pattern

Immunofluorescence



IF Overlay:	antibody (green), anti-tubulin (red) and DAPI (blue)
IF main location:	Plasma membrane - 12: Uncertain (auto) Cytosol - 3: Supportive (auto) Centriolar satellite - 12: Uncertain (auto)
IF additional location:	
IF approved for publication on HPA:	Yes
IF in THP-1:	Plasma membrane Centriolar satellites
IF in U2OS:	Cytosol

Western blot



WB Size markers (kDa):	250, 130, 100, 70, 55, 35, 25, 15, 10
WB Lanes:	Marker (1), RT-4 (2), U-251MG (3), Plasma (4), Liver (5), Tonsil (6)
WB Target weight (kDa):	14, 15, 15, 55
WB Validation:	Supported (Band of predicted size in kDa (+/-20%) with additional bands present.)