

**Anti-Fascin Monoclonal Antibody**  
**Catalog # ABO14488****Specification**

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**Anti-Fascin Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	<a href="#">Q16658</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-Fascin Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

**Anti-Fascin Monoclonal Antibody - Additional Information**

**Gene ID** 6624

**Other Names**

Fascin, 55 kDa actin-bundling protein, Singed-like protein, p55, FSCN1, FAN1, HSN, SNL

**Calculated MW**

55 kDa KDa

**Application Details**

WB 1:1000-1:5000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:50<br>FC 1:100

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human Fascin Promotes cross-linkage of parallel actin filaments during the formation of cell protrusions (lamellipodia and filopodia), and therefore plays an important role in regulating cell migration. It has been reported that fascin may also regulate filopodia formation by a mechanism independent of its actin-bundling functions, though less is known about this mechanism of action.

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-Fascin Monoclonal Antibody - Protein Information**

**Name** FSCN1

**Synonyms** FAN1, HSN, SNL

### Function

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

### Cellular Location

Cytoplasm, cytosol. Cytoplasm, cell cortex. Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, stress fiber. Cell projection, filopodium. Cell projection, invadopodium. Cell projection, microvillus. Cell junction. 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). {ECO:0000250|UniProtKB:Q61553, ECO:0000269|PubMed:21706053}

### Tissue Location

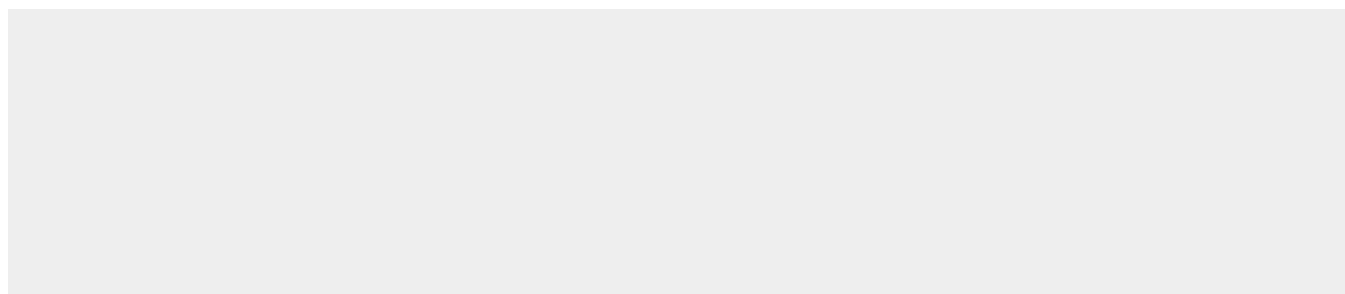
Ubiquitous.

## Anti-Fascin Monoclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-Fascin Monoclonal Antibody - Images



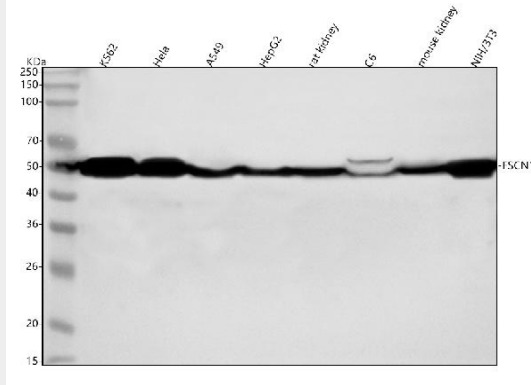


Figure 1. Western blot analysis of Fascin using anti-Fascin antibody (M02147-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

- Lane 1: human K562 whole cell lysates,
- Lane 2: human Hela whole cell lysates,
- Lane 3: human A549 whole cell lysates,
- Lane 4: human HepG2 whole cell lysates,
- Lane 5: rat kidney tissue lysates,
- Lane 6: rat C6 whole cell lysates,
- Lane 7: mouse kidney tissue lysates,
- Lane 8: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Fascin antigen affinity purified monoclonal antibody (Catalog # M02147-1) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:1000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Fascin at approximately 55 kDa. The expected band size for Fascin is at 55 kDa.

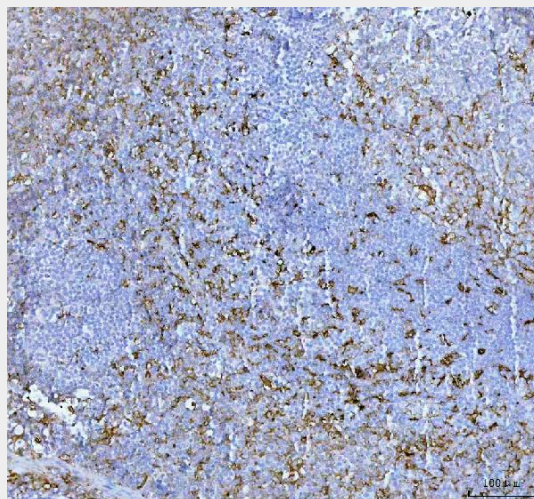


Figure 2. IHC analysis of Fascin using anti-Fascin antibody (M02147-1).

Fascin was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Fascin Antibody (M02147-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was

developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

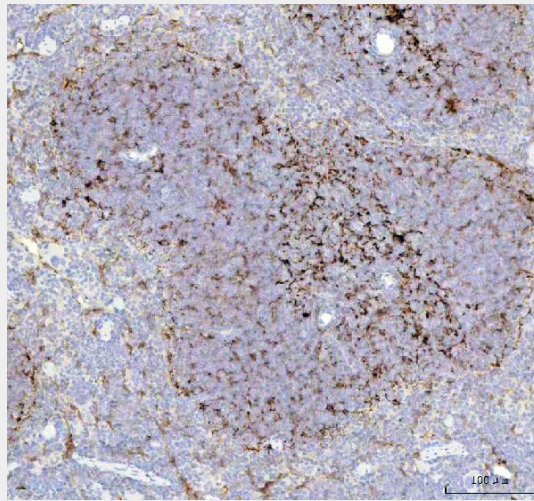


Figure 3. IHC analysis of Fascin using anti-Fascin antibody (M02147-1).

Fascin was detected in a paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Fascin Antibody (M02147-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

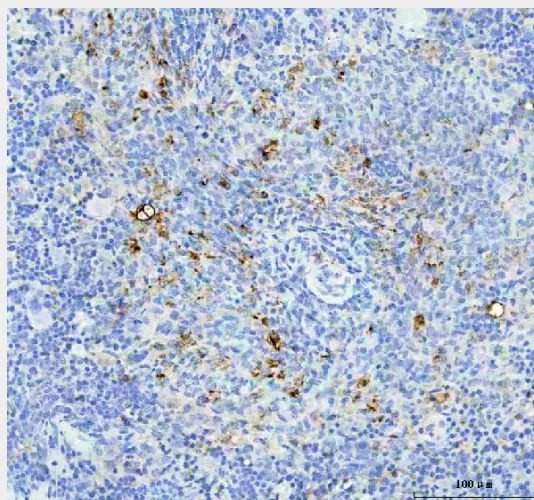


Figure 4. IHC analysis of Fascin using anti-Fascin antibody (M02147-1).

Fascin was detected in a paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Fascin Antibody (M02147-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.