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# Anti-Fascin Picoband Antibody

Catalog # ABO12278

## Product Information

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| **Application** | WB |
| **Primary Accession** | Q16658 |
| **Host** | Rabbit |
| **Reactivity** | Human, Rat |
| **Clonality** | Polyclonal |
| **Format** | Lyophilized |
| **Description** | Rabbit IgG polyclonal antibody for Fascin(FSCN1) detection. Tested with WB in Human;Rat. |
| **Reconstitution** | Add 0.2ml of distilled water will yield a concentration of 500ug/ml. |

## Additional Information

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| **Gene ID** | 6624 |
| **Other Names** | Fascin, 55 kDa actin-bundling protein, Singed-like protein, p55, FSCN1, FAN1, HSN, SNL |
| **Calculated MW** | 54530 |
| **Application Details** | Western blot, 0.1-0.5 □g/ml, Human, Rat |
| **Subcellular Localization** | Cytoplasm, cytoskeleton. Cell projection, filopodium. Cell projection, invadopodium. Cytoplasm, cytosol. In glioma cells, partially colocalizes with F-actin stress fibers in the cytosol. |
| **Tissue Specificity** | Ubiquitous. |
| **Source** | Eukaryota |
| **Protein Name** | Fascin |
| **Contents** | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3. |
| **Immunogen** | A synthetic peptide corresponding to a sequence at the N-terminus of human Fascin (42-73aa KKQIWTLEQPPDEAGSAAVCLRSHLGRYLAAD), identical to the related mouse sequence, and different from the related rat sequence by one amino acid. |
| **Purification** | Immunogen affinity purified. |
| **Cross Reactivity** | No cross reactivity with other proteins |

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| **Storage** | At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing. |
| **Sequence Similarities** | Belongs to the fascin family. |

## Protein Information

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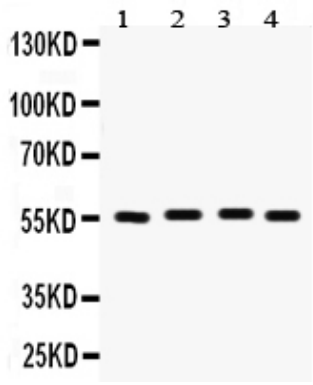
| **Name** | FSCN1 |
| **Synonyms** | FAN1, HSN, SNL |
| **Function** | Actin-binding protein that contains 2 major actin binding sites (PubMed:21685497, PubMed:23184945). Organizes filamentous actin into parallel bundles (PubMed:20393565, PubMed:21685497, PubMed:23184945). Plays a role in the organization 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). |
| **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 filipodia 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. |

## Background

Fascin is an actin cross-linking protein. The Fascin gene contains 5 exons and spans 7 kb. It is a 54-58 kilodalton monomeric actin filament bundling protein originally isolated from sea urchin egg but also found in Drosophila and vertebrates, including humans. Fascin (from the Latin for bundle) is spaced at 11 nanometre intervals along the filament. The bundles in cross section are seen to be hexagonally packed, and the longitudinal spacing is compatible with a model where fascin cross-links at alternating 4 and 5 actins. It is calcium insensitive and monomeric. Fascin binds beta-catenin, and colocalizes with it at the leading edges and borders of epithelial and endothelial cells. The role of Fascin in regulating cytoskeletal structures for the maintenance of cell adhesion, coordinating motility and invasion through interactions with signalling pathways is an active area of research especially from the cancer biology perspective. Abnormal fascin expression or function has been implicated in breast cancer, colon cancer, esophageal squamous cell carcinoma, gallbladder cancer and prostate cancer.

## Images

Anti- Fascin Picoband antibody, ABO12278, Western blottingAll lanes: Anti Fascin (ABO12278) at 0.5ug/mlLane 1: Rat Brain Tissue Lysate at 50ugLane 2: Rat Lung Tissue Lysate at 50ugLane 3: HELA Whole Cell Lysate at 40ugLane 4: SKOV Whole Cell Lysate at 40ugPredicted bind size: 55KDObserved bind size: 55KD

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