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diagnostic or therapeutic use.**

EB08002 - Goat Anti-Fascin 2 Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: fascin homolog 2, actin-bundling protein, retinal (Strongylocentrotus purpuratus), RFSN, RP30, fascin 2, retinal fascin

Official Symbol: FSCN2

Accession Number(s): NP_001070650.1; NP_036550.1

Human GeneID(s): [25794](#)

Non-Human GeneID(s): 238021 (mouse), 303741 (rat)

Important Comments: This antibody is expected to recognize both reported isoforms (NP_001070650.1 and NP_036550.1).

Immunogen

Peptide with sequence CHHRGSNQLDTNR, from the internal region of the protein sequence according to NP_001070650.1; NP_036550.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:64000.

Western blot: Preliminary experiments gave bands at approx 75kDa and 22kDa in Mouse Eye lysates after 0.05µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the bands we observe given the calculated size of 57.4kDa according to NP_001070650.1 and 55.1kDa according to NP_036550.1. Both detected bands were successfully blocked by incubation with the immunizing peptide (and BLAST results with the immunizing peptide sequence did not identify any other proteins to explain the additional bands). We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported?

IHC: This product was successfully used on sections of mouse cochlea as described in Shin et al, J Neurosci. 2010 Jul 21;30(29):9683-94; PMID: 20660251

Species Reactivity

Tested: Mouse

Expected from sequence similarity: Human, Mouse, Rat, Dog

Specific References

This antibody has been successfully used in the following paper:

Shin JB, Longo-Guess CM, Gagnon LH, Saylor KW, Dumont RA, Spinelli KJ, Pagana JM, Wilmarth PA, David LL, Gillespie PG, Johnson KR.

The R109H variant of fascin-2, a developmentally regulated actin crosslinker in hair-cell stereocilia, underlies early-onset hearing loss of DBA/2J mice.

J Neurosci. 2010 Jul 21;30(29):9683-94.

PMID: 20660251

Ramakrishnan NA, Drescher MJ, Khan KM, Hatfield JS, Drescher DG.
HCN1 and HCN2 proteins are expressed in cochlear hair cells: HCN1 can form a ternary complex with protocadherin 15 CD3 and F-actin-binding filamin A or can interact with HCN2.
J Biol Chem. 2012 Nov 2;287(45):37628-46.
PMID: 22948144