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Product datasheet for AP31070PU-N

Fascin 2 (FSCN2) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC
Recommended Dilution:	**Peptide ELISA:** Detection Limit: 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). **Immunohistochemistry:** This product was successfully used on Sections of Mouse cochlea as descibed in *Reference 1*.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Peptide with sequence from the internal region of the protein sequence according to NP_001070650.1; NP_036550.1.
Specificity:	This antibody is expected to recognize both reported isoforms (NP_001070650.1 and NP_036550.1).
Formulation:	Tris saline, pH~7.3 containing 0.02% Sodium Azide as preservative and 0.5% BSA as stabilizer State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity Chromatgraphy
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	fascin actin-bundling protein 2, retinal

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Database Link: Entrez Gene 238021 MouseEntrez Gene 303741 RatEntrez Gene 25794 Human O14926

Background: Fascin-2 Acts as an actin bundling protein. May play a pivotal role in photoreceptor cell-specific events, such as disk morphogenesis.
Defects in FSCN2 are the cause of retinitis pigmentosa type 30 (RP30) [MIM:607921]. RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. RP30 inheritance is autosomal dominant.

Synonyms: FSCN2, Retinal fascin