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SPRED2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP2732b

Specification

SPRED2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q7Z698

SPRED2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 200734

Other Names
Sprouty-related, EVH1 domain-containing protein 2, Spred-2, SPRED2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2732b was selected from the C-term region of human SPRED2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SPRED2 Antibody (C-term) Blocking Peptide - Protein Information

Name SPRED2

Function
Negatively regulates Ras signaling pathways and downstream activation of MAP kinases (PubMed:15683364, PubMed:34626534). Recruits and translocates NF1 to the cell membrane, thereby enabling NF1- dependent hydrolysis of active GTP-bound Ras to inactive GDP-bound Ras (PubMed:34626534). Inhibits fibroblast growth factor (FGF)-induced retinal lens fiber differentiation, probably by inhibiting FGF-mediated phosphorylation of ERK1/2 (By similarity). Inhibits TGFB-induced epithelial-to-mesenchymal transition in lens epithelial cells (By similarity).

Cellular Location
Cell membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:Q924S7}; Cytoplasmic

side {ECO:0000250|UniProtKB:Q924S7}. Cytoplasmic vesicle, secretory vesicle membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasm. Note=Detected in the cytoplasm of the stratum spinosum cells, where it is associated with cytoplasmic vesicles that are supposed to be secretory granules

Tissue Location
Expressed in liver, skin, small intestine, salivary gland and prostate.

SPRED2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SPRED2 Antibody (C-term) Blocking Peptide - Images

SPRED2 Antibody (C-term) Blocking Peptide - Background

SPRED2 is a member of the Sprouty (see SPRY1; MIM 602465)/SPRED family of proteins that regulate growth factor-induced activation of the MAP kinase cascade (see MAPK1; MIM 176948) (Nonami et al., 2004 [PubMed 15465815]).

SPRED2 Antibody (C-term) Blocking Peptide - References

Lock,P., Biochem. Biophys. Res. Commun. 351 (4), 1018-1023 (2006)Yoshida,T., Oncogene 25 (45), 6056-6066 (2006)Bundschu,K., J. Biol. Chem. 280 (31), 28572-28580 (2005)