Datasheet for ABIN1043909

anti-SPRY2 antibody (Internal Region)

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Overview

Quantity:	100 µg
Target:	SPRY2
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SPRY2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Anti-Sprouty-2 affinity purified antibody was purified from monospecific rabbit antiserum prepared via repeated immunizations with human sprouty-2 peptide. Immunogen Type: Peptide
Isotype:	IgG
Specificity:	Anti-Sprouty-2 was affinity purified from monospecific antiserum by immunoaffinity chromatography. Sprouty-2 antibody reacts with human Sprouty 2 protein. A BLAST analysis was used to suggest reactivity with Sprouty 2 from human, monkey, and orangutan based on a 100% homology with the immunizing sequence. Cross-reactivity with Sprouty2 from other sources has not been determined.
Characteristics:	Sprouty was originally identified as an inhibitor of Drosophila epidermal growth factor (EGF) and fibroblast growth factor (FGF) receptor signaling during tracheal development. Four

Product Details

	isoforms of mammalian sprouty are known (Spry1-Spry4). The role of the mammalian analogs has not been clearly elucidated although it is believed that human Sprouty-2 (hSpry2) may be an inhibitor of cellular migration and proliferation. Spry2 and Spry4 show considerable sequence homology between human and mouse at the C-terminus of the protein. Significant sequence divergence occurs at the N-terminus. Spry2 appears to be abundant in brain, lung and heart tissue, with lesser amounts found in kidney and skeletal muscle.
Sterility:	Sterile filtered

Target Details

Target:	SPRY2
Alternative Name:	Sprouty-2 (SPRY2 Products)
Background:	Sprouty was originally identified as an inhibitor of Drosophila epidermal growth factor (EGF) and fibroblast growth factor (FGF) receptor signaling during tracheal development. Four isoforms of mammalian sprouty are known (Spry1-Spry4). The role of the mammalian analogs has not been clearly elucidated although it is believed that human Sprouty-2 (hSpry2) may be an inhibitor of cellular migration and proliferation. Spry2 and Spry4 show considerable sequence homology between human and mouse at the C-terminus of the protein. Significant sequence divergence occurs at the N-terminus. Spry2 appears to be abundant in brain, lung and heart tissue, with lesser amounts found in kidney and skeletal muscle. Synonyms: hSPRY 2, hSPRY2, MGC23039, Sprouty homolog 2 (Drosophila), Sprouty homolog 2, Sprouty2, Spry 2, sprouty-2, sprouty 2
Gene ID:	10253
UniProt:	O43597
Pathways:	EGFR Signaling Pathway, Sensory Perception of Sound, EGFR Downregulation

Application Details

Application Notes:	Anti-Sprouty-2 antibody is suitable for ELISA, IF, and western blotting. Specific conditions for reactivity should be optimized by the end user.
Comment:	Gene Name: Sprouty 2
Restrictions:	For Research Use only

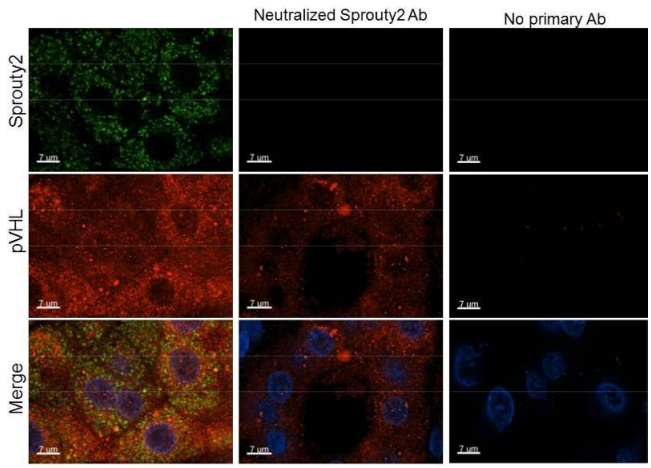
Handling

Format:	Liquid
Concentration:	1.04 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.
Expiry Date:	12 months

Publications

Product cited in:	Baek, Eling: "Changes in gene expression contribute to cancer prevention by COX inhibitors." in: **Progress in lipid research**, Vol. 45, Issue 1, pp. 1-16, (2006) (PubMed).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of Rabbit anti-Sprouty2 antibody. Tissue: human kidney clear cell tumor. Fixation: formalin fixed, paraffin embedded. Antigen retrieval: yes. Primary antibody: Sprouty2 antibody at 1:250. Secondary antibody: alexafluor 488 secondary at 1:500 overnight at 4°C. Localization: nucleus and cytoplasm. Staining: green = sprouty2, Blue = dapi, red= vhl.