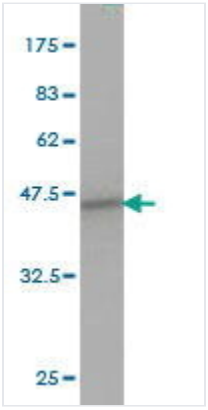
SPRY1 Antibody – Mouse Monoclonal

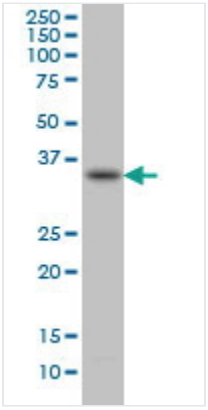
PRODUCT OVERVIEW

Product Name	SPRY1, Monoclonal Antibody
Full Product Name	SPRY1 (Protein Sprouty Homolog 1, Spry-1) (FITC)
Product Gene Name	anti-SPRY1 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3H4
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human SPRY1.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be r assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to rer cap.
Molecular Weight	35kDa
OMIM	602465
3D Structure	ModBase 3D Structure for O43609
Immunogen	Partial recombinant corresponding to aa1-110 from SPRY1 (NP_005832) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MDPQNQHGSGSSLVVIQQPSLDSRQRLDYEREIQPTAILSLDQIKAIRGSNEYTEGPSVVKRPAPRTAPRQEKHERTHEIIPINVNNNYEHRHTSHLGHAVL
Conjugate	FITC
Product Categories/Family for anti-SPRY1 antibody	Antibodies; Sprouty
Applications Tested/Suitable for anti-SPRY1 antibody	ELISA (EIA), Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-SPRY1 antibody	IHC-P: 3ug/ml Applications are based on unconjugated antibody.

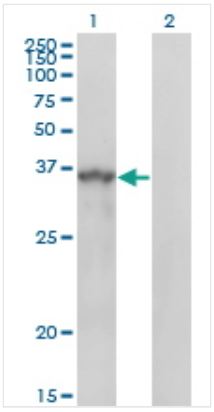
Related Product Information for anti-SPRY1 antibody	MBS6149872 is an antibody targeting SPRY1. Also known as SPRY1 (Protein Sprouty Homolog 1, Spry-1) (FITC). Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-SPRY1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional may apply.



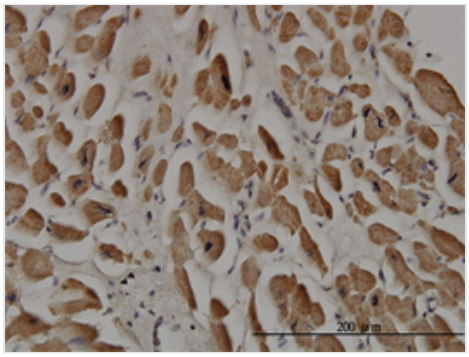
Western Blot (WB) of anti-SPRY1 antibody
Western Blot detection against Immunogen (38.21kD).



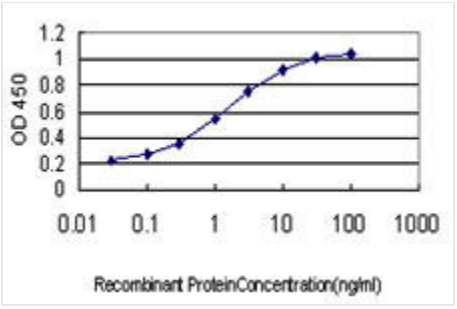
Western Blot (WB) of anti-SPRY1 antibody
SPRY1 monoclonal antibody Western Blot analysis of SPRY1 expression in HepG2.



Western Blot (WB) of anti-SPRY1 antibody
Western Blot analysis of SPRY1 expression in transfected 293T cell line by SPRY1 monoclonal antibody. Lane 1: SPRY1 transfected lysate (35.1kD). Lane 2: Non-transfected lysate.



Immunohistochemistry (IHC) of anti-SPRY1 antibody
Immunoperoxidase of monoclonal antibody to SPRY1 on formalin-fixed paraffin-embedded human heart. [antibody concentration 3ug/ml]



Testing Data of anti-SPRY1 antibody
Detection limit for recombinant GST tagged SPRY1 is ~0.03ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPRY1. It may not necessarily be applicable to this product.

NCBI GI #	40538726

NCBI GeneID	10252
NCBI Accession #	NP_005832
UniProt Primary Accession #	O43609
UniProt Related Accession #	O43609
GenBank Nucleotide #	NM_005841
NCBI Official Full Name	protein sprouty homolog 1
NCBI Official Synonym Full Names	sprouty RTK signaling antagonist 1
NCBI Official Symbol	SPRY1
NCBI Official Synonym Symbols	hSPRY1
UniProt Protein Name	Protein sprouty homolog 1
Protein Family	Protein sprouty
UniProt Gene Name	SPRY1
UniProt Synonym Gene Names	Spry-1
UniProt Entry Name	SPY1_HUMAN
NCBI Protein Information	protein sprouty homolog 1
UniProt Comments for SPRY1	SPRY1: May function as an antagonist of fibroblast growth factor (FGF) pathways and may negatively modulate respiratory organogenesis. Belongs to the sprouty family. Induced by FGF signaling. Protein type: Motility/polarity/chemotaxis; Inhibitor; Adaptor/scaffold Chromosomal Location of Human Ortholog: 4q28.1 Cellular Component: plasma membrane; cytosol Molecular Function: protein binding Biological Process: epidermal growth factor receptor signaling pathway; negative regulation of epidermal growth factor receptor signaling pathway; negative regulation of cell proliferation; negative regulation of MAP kinase activity; establishment of mitotic spindle orientation; negative regulation of fibroblast growth factor receptor signaling pathway; ureteric bud development; negative regulation of nerve growth factor receptor signaling pathway; induction of an organ; negative regulation of Ras protein signal transduction; metanephros development
Research Articles on SPRY1	**1.** Study demonstrated that Spry1 has a role in supporting mitogen-induced vascular hyperplasia, at least in part by promoting Akt/Rb signaling and increasing mitogen-induced cyclinD1 expression and decreasing p27Kip1 expression.
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