

Datasheet

SPRY2 monoclonal antibody (M01), clone 1E10

Catalog Number: H00010253-M01

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a full length recombinant SPRY2.

Clone Name: 1E10

Immunogen: SPRY2 (AAH15745.1, 1 a.a. ~ 315 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:

MEARAQSGNGSQPLLQTPRDGGRQRGEPDPRDALT
QQVHVLSDQIRAIRNTNEYTEGPTVPRPGLKPAPRP
STQHKHERLHGLPEHRQPPRLQHSQVHSSARAPLSR
SISTVSSGSRSTRTSTSSSSSEQRLGSSSFSSGPVAD
GIIRVQPKSELKPGELKPLSKEDLGLHAYRCEDCGKCK
CKECTYPRPLPSDWICDKQCLCSAQNVIDYGTCCCV
KGLFYHCSNDDNDCADNPCSCSQSHCCTRWSAMG
VMSLFLPCLWCYLPAGKCLKLCQGCYDRVNRPGCRC
KNSNTVCCKVPTVPPRNFEKPT

Host: Mouse

Reactivity: Human

Applications: ELISA, IF, IHC-P, S-ELISA, WB-Ce, WB-Re, WB-Tr

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Isotype: IgG1 Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 10253

Gene Symbol: SPRY2

Gene Alias: MGC23039, hSPRY2

Gene Summary: This gene encodes a protein belonging to the sprouty family. The encoded protein contains a carboxyl-terminal cysteine-rich domain essential for the inhibitory activity on receptor tyrosine kinase signaling proteins and is required for growth factor stimulated translocation of the protein to membrane ruffles. In primary dermal endothelial cells this gene is transiently upregulated in response to fibroblast growth factor two. This protein is indirectly involved in the non-cell autonomous inhibitory effect on fibroblast growth factor two signaling. The protein interacts with Cas-Br-M (murine) ectopic retroviral transforming sequence, and can function as a bimodal regulator of epidermal growth factor receptor/mitogen-activated protein kinase signaling. This protein may play a role in alveoli branching during lung development as shown by a similar mouse protein. [provided by RefSeq]

References:

1. SPROUTY2 is a β -catenin and FOXO3a target gene indicative of poor prognosis in colon cancer. Ordenez-Moran P, Irmisch A, Barbachano A, Chicote I, Tenbaum S, Landolfi S, Tabernero J, Huelsken J, Munoz A, Palmer HG. *Oncogene*. 2013 Apr 29. doi: 10.1038/onc.2013.140.
2. Initial Report on Differential Expression of Sprouty Proteins 1 and 2 in Human Epithelial Ovarian Cancer Cell Lines. Moghaddam SM, Amini A, Wei AQ, Pourgholami MH, Morris DL. *J Oncol*. 2012;2012:373826. doi: 10.1155/2012/373826. Epub 2012 Nov 29.
3. SPROUTY-2 and E-cadherin regulate reciprocally and dictate colon cancer cell tumorigenicity. Barbachano A, Ordenez-Moran P, Garcia JM, Sanchez A, Pereira F, Larriba MJ, Martinez N, Hernandez J, Landolfi S, Bonilla F, Palmer HG, Rojas JM, Munoz A. *Oncogene*. 2010 Jun 14. [Epub ahead of print]