

DESCRIPTION

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| Species Reactivity | Human/Mouse |
| Specificity | Detects human and mouse SPRY2 in Western blots. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant human SPRY2 Met1-Ala175 Accession # O43597 |
| Conjugate | Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm |
| Formulation | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. | |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied |

BACKGROUND

SPRY2 (sprouty homolog 2) is a 35 kDa member of the sprouty family of proteins. It is widely expressed in embryonic and adult tissues, including endothelium. SPRY2 is considered a negative regulator of Ras/ERK signaling. For example, it appears to form a trimeric complex with PKCδ and PKD1, blocking ERK phosphorylation. It also interacts with a number of other molecules, including CBL and SIAH2, which likely limit its availability. Human SPRY2 is 315 amino acids (aa) in length and contains one CBL-TKB binding site (aa 53-59) that is phosphorylated at Tyr55, a Ser-rich region (aa 125-131), a Cys-rich domain (aa 178-301) and a PxxPxR motif that mediates ERK inhibitory activity. Over aa 1-175, human SPRY2 shares 94% aa identity with mouse SPRY2.

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