

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human SPRY4 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human SPRY4 Met1-His178 Accession # NP_112226
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

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

SPRY4 (sprouty 4) is a member of the sprouty family of proteins. It blocks tyrosine kinase growth factor activation of the MAPK signaling pathway, possibly through an interaction with either Raf1 or TESK1. Human SPRY4 is 322 amino acids (aa) in length. It contains three SH3-binding domains (aa 3-9; 25-31; 168-174), an NLS (aa 87-93), a PEST sequence (aa 118-133), and a Cys-rich/Zn⁺⁺-finger domain that binds both TESK1 and Raf1 (aa 182-298). There are two variant isoforms. One is a short form that shows an alternate start site at Met24, while a second shows a 10 aa substitution for aa 120-129, followed by a premature truncation. Over aa 1-177, human SPRY4 is 89% aa identical to canine SPRY4. Mouse SPRY4 is orthologous to the human short form, and shares 90% aa identity with human SPRY4.

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