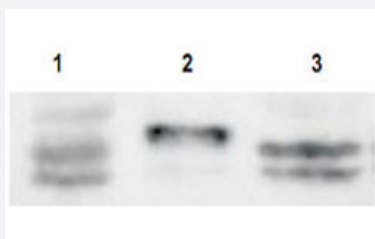


SPRY4 polyclonal antibody

Catalog # PAB11269

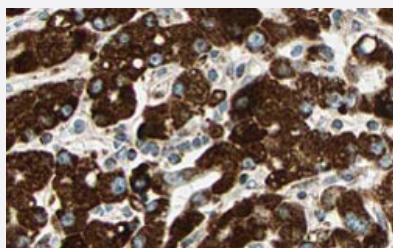
Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot using SPRY4 polyclonal antibody (Cat # PAB11269) shows detection of a doublet band ~35 kDa corresponding to human SPRY4. Approximately 30 ug of HeLa (lane 1), SW-13 (lane 2) and C2C12 (Lane 3) whole cell lysates were separated by 10% SDS-PAGE. The primary antibody diluted to 1:100.



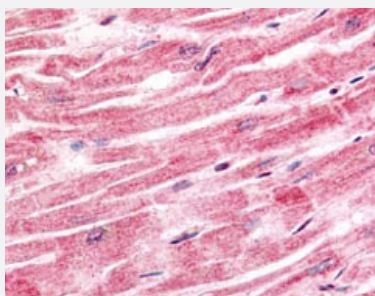
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of SPRY4 polyclonal antibody (Cat # PAB11269) shows strong cytoplasmic and membranous staining of tumor cells in human liver tissue.

Tissue was formalin-fixed and paraffin embedded.

Brown color indicates presence of protein, blue color shows cell nuclei.

Personal Communication, Kenneth Wester, www.proteinatlas.org, Uppsala, Sweden.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry of SPRY4 polyclonal antibody (Cat # PAB11269) was used at a 2.5 ug/mL to detect cytoplasmic signal with moderate to strong staining and low background in a variety of tissues including heart, prostate, intestine, kidney and pancreas.

Strong specific staining was noted at particular cell types in some tissues (i.e. Sertoli and Leydig cells).

The antibody shows very good signal to background at 2.5 ug/mL.

This image shows SPRY4 staining of human heart tissue.

Tissue was formalin-fixed and paraffin embedded.

Personal Communication, Tina Roush, Life Span Biosciences, Seattle, WA.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SPRY4.
Immunogen	A synthetic peptide corresponding to amino acids 306-322 of human SPRY4.
Host	Rabbit
Reactivity	Bovine, Chimpanzee, Dog, Human, Mouse, Rat
Specificity	Expect reactivity only with the SPRY4A splice variant of this protein.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:3000-1:12000) Western Blot (1:100-1:1000) Immunohistochemistry (1-10 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot using SPRY4 polyclonal antibody (Cat # PAB11269) shows detection of a doublet band ~35 kDa corresponding to human SPRY4.

Approximately 30 ug of HeLa (lane 1), SW-13 (lane 2) and C2C12 (Lane 3) whole cell lysates were separated by 10% SDS-PAGE.

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Personal Communication, Tina Roush, Life Span Biosciences, Seattle, WA.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — SPRY4

Entrez GeneID	81848
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Protein Accession#	Q9C004:NP_112226
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Gene Name	SPRY4
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Gene Alias	-
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Gene Description	sprouty homolog 4 (Drosophila)
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Omim ID	607984
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Gene Ontology	Hyperlink
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Gene Summary	SPRY4 is an inhibitor of the receptor-transduced mitogen-activated protein kinase (MAPK) signaling pathway. It is positioned upstream of RAS (see HRAS; MIM 190020) activation and impairs the formation of active GTP-RAS (Leeksma et al., 2002 [PubMed 12027893]).[supplied by OMIM]
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Other Designations	sprouty homolog 4
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Publication Reference

- [Genomic structure and promoter characterization of the human Sprouty4 gene, a novel regulator of lung morphogenesis.](#)

Ding W, Bellusci S, Shi W, Warburton D.

American Journal of Physiology. Lung Cellular and Molecular Physiology 2004 Jul; 287(1):L52.

- [Mammalian Sprouty4 suppresses Ras-independent ERK activation by binding to Raf1.](#)

Sasaki A, Taketomi T, Kato R, Saeki K, Nonami A, Sasaki M, Kuriyama M, Saito N, Shibuya M, Yoshimura A.
Nature Cell Biology 2003 May; 5(5):427.

Application: IP, WB, Human, HEK 293T cells

- [Human sprouty 4, a new ras antagonist on 5q31, interacts with the dual specificity kinase TESK1.](#)

Leeksma OC, Van Achterberg TA, Tsumura Y, Toshima J, Eldering E, Kroes WG, Mellink C, Spaargaren M, Mizuno K, Pannekoek H, de Vries CJ.

European Journal of Biochemistry 2002 May; 269(10):2546.

Pathway

- [Jak-STAT signaling pathway](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Neoplasms](#)
- [Neurofibromatosis](#)
- [Neurofibromatosis 1](#)
- [Schizophrenia](#)
- [Syndrome](#)
- [Testicular Neoplasms](#)