



Qty: 100µg/400 µL

Rabbit anti-Sprouty-1

Catalog No. 40-1800

Lot No.

Rabbit anti-Sprouty-1

FORM

This polyclonal antibody is supplied as a 400 µL aliquot at a concentration of 0.25 mg/mL in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. This antibody is epitope-affinity purified from rabbit antiserum.

PAD: ZMD.435

IMMUNOGEN

Synthetic peptide derived from the N-terminal region of mouse and rat Sprouty-1

SPECIFICITY

This antibody reacts with the ~34 kDa mouse Sprouty-1. A band of unknown origin was observed at ~120 kDa.

REACTIVITY

Reactivity has been confirmed with two day-old mouse kidney homogenates.

Sample	Western Blotting	Immunoprecipitation
Mouse	+++	0*
Rat	ND	ND

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

*No reactivity observed under conditions tested.

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Western Blotting: 1-3 µg/mL

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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BACKGROUND

Sprouty-1 and -2 are membrane-anchored phosphoprotein inhibitors of growth factor signaling in endothelial cells. Four mammalian Sprouty homologues (Sprouty-1–4) have been identified. One study showed that overexpressed Sprouty-1 and -2 inhibits fibroblast growth factor– and vascular endothelial growth factor–induced proliferation and differentiation by repressing pathways leading to MAP kinase activation.¹ Sprouty proteins are also endogenous inhibitors of the Ras/MAP kinase pathway that play an important role in the remodeling of branching tissues, such as in development of the lung, kidney tubules, vascular system, and breast ducts.²

A recent study shows that Sprouty-1 and –2 may have tumor suppressing activity in the breast, and found that both proteins are consistently down-regulated in breast carcinomas.²

REFERENCES

1. Impagnatiello MA, et al. *J Cell Biol* 152(5):1087-1098, 2001.
2. Lo TL, et al. *Cancer Res* 64(17):6127-6136, 2004.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

Conjugate	ZyMAX[™] Goat x Rabbit IgG (H+L)	ZyMAX[™] Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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