



Qty: 100µg/400 µL

Rabbit anti-Syndecan-4

For Research Use Only

Catalog No. 36-3100

Lot No.

Rabbit anti-Syndecan-4

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 affinity purified from rabbit antiserum.

PAD: ZMD.293

IMMUNOGEN

Synthetic peptide derived from the middle region of the human Syndecan-4 protein.

SPECIFICITY

This antibody reacts with the human Syndecan-4 protein. On Western blots, it identifies a band at ~37 kDa representing the core protein and a band of ~22 kDa representing the unglycosylated form.

REACTIVITY

Reactivity has been confirmed with human T47D, HEP-G2, NCI-H69, SCLC and JEG cells lysates.

Sample	Western Blotting	ELISA
Human	+++	ND
Immunogen	N/A	+++

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

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.

ELISA: 0.1-1µg/mL
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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PI363100

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BACKGROUND

Syndecans are heparan sulfate proteoglycans (HSPGs), which are cell-surface-associated proteins.¹ These include Syndecans 1-4. Syndecans contain a small core protein with distinct functional domains to which are linked multiple glycosaminoglycan (GAG) chains, predominantly of the heparan sulfate variety. Syndecan synthesis is highly regulated^{1,2} and is dependent on both cell type and developmental state.⁴

Syndecans are involved in cell adhesion, tissue morphogenesis and differentiation and regulation of cell responsiveness to soluble growth-regulatory compounds. These functions are attributed primarily to the glycan moieties. Syndecans also interact with growth factors such as fibroblast growth factor and epidermal growth factor.³

REFERENCES

1. Elenius, K., et al. *J Cell Biol* **114**(3), 585-95, 1991.
2. Yeaman, C et al. *J Cell Biol* **122** (4), 941-50, 1993.
3. Subramanian S V, et al. *J Biol Chem* **272**(23), 14713-20, 1997.
4. Kim C W, et al. *Mol Biol Cell* **5**(7), 797-805, 1994.

RELATED PRODUCTS

<u>Product</u>	<u>Clone/PAD*</u>	<u>Cat. No.</u>
Rabbit anti-Syndecan-3 (MID)	ZMD.284	36-2400
Rabbit anti-Syndecan-3 (N-Term)	ZMD.285	36-2500

Protein A Sepharose® 4B	10-1041
rec-Protein G Sepharose® 4B	10-1241

*PAD: Polyclonal Antibody Designation

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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