

ZYMED[®] Laboratories

invitrogen immunodetection

Qty: 100 µg/400 µl

Rabbit anti-ephrin-A5

Catalog No. 38-0400

Lot No. See product label

Rabbit anti-ephrin-A5

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. The antibody is epitope-affinity-purified from rabbit antiserum.

PAD: ZMD.333

IMMUNOGEN

Synthetic peptide derived from the C-terminal end of the mouse ephrin-A5 protein.

SPECIFICITY

This antibody reacts with the mouse ~25 kDa ephrin-A5 protein.

REACTIVITY

Reactivity is confirmed with ephrin-A5 transfected 293 cell lysates in both western blot and immunofluorescence assays. Based on amino acid sequence homolog, this antibody is also expected to react with human and rat

Sample	Western Blotting	Immunoprecipitation	Immunofluorescent
Mouse	+++	+	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not tested NT)

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

Immunoprecipitation: 5-10 µg/ IP reaction

Immunofluorescence: 5 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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PIN:31535

Rev. 7/07

DCC-07-0551

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BACKGROUND

Ephrins are ligands, that bind to the Eph receptors, the largest group of the receptor tyrosine kinase subgroup. Both ephrins and Eph receptors are broadly expressed throughout the ectoderm, mesoderm, and endoderm of vertebrate embryos.¹ The interaction of ephrins with the appropriate Eph receptor(s) has been implicated in a wide spectrum of functions in vertebrate morphogenesis, including the accurate migration of embryonic cells,² formation of boundaries between structures (i.e. rhombomeres and somites), and the control of cytoskeletal changes which dictate cellular shape and adhesion during development.

The ephrin-A5 modulates cell adhesion and morphology by specifying the affinity of cells towards various extracellular substrates by regulating integrin function.³ It also selectively inhibits spinal cord neurite outgrowth and cell survival, thus regulating morphogenesis and axon guidance in the spinal cord.⁴

REFERENCES

1. Holder N, Klein R. *Development* 126(10):2033-2044, 1999.
2. Flanagan JG, Vandehaeghen P. *Annu Rev Neurosci* 21:309-345, 1998.
3. Davy A, et al. *Embo J* 19:5396-5405, 2000.
4. Wahl S, et al. *J Cell Biol* 149:263-270, 2000.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Rabbit anti-ephrin-A4	ZMD.56	18-2303
Rabbit anti-ephrin-A1	ZMD.39	34-3300
Rabbit anti-ephrin-A1	ZMD.39	18-2301
Rabbit anti-ephrin-A2	ZMD.40	34-3400
Rabbit anti-ephrin-A2	ZMD.40	18-2302
Rabbit anti-ephrin-B1	ZMD.41	34-3500
Rabbit anti-ephrin-B1	ZMD.41	18-2303
Rabbit anti-ephrin-B3	ZMD.42	34-3600
Rabbit anti-ephrin-B3	ZMD.42	18-2305
Rabbit anti-EphA2 Receptor	ZMD.224	34-7400
Rabbit anti-EphA3 Receptor	ZMD.235	34-8500
Rabbit anti-EphA4 Receptor	ZMD.229	34-7900
Mouse anti-EphB4 Receptor	3D7F8	35-2900
Mouse anti-Chicken ephrin-B1	11B3	35-5900
Mouse anti-Chicken EphB5 Receptor	5G6H8	35-3000
Rabbit anti-Chicken EphB5 Receptor	ZMD.225	34-7500

*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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DCC-06-0084