



Qty: 100 µg/400 µl

Rabbit anti-EphA3 Receptor

Catalog No. 34-8500

Lot No. See product label

Rabbit anti-EphA3 Receptor

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.235

IMMUNOGEN

Synthetic peptide derived from the C-terminal region of the human EphA3 receptor protein.

SPECIFICITY

This antibody reacts with the ~110 kDa (calculated molecular weight) human EphA3 receptor.

REACTIVITY

Reactivity is confirmed with human HEK 293 cells carrying an expression vector encoding human EphA3 receptor. Based on sequence homology, this antibody is expected to react with mouse and rat EphA3 receptor. No cross-reactivity was observed with human EphA2, EphA4, EphB2, EphB4 or EphB5 receptors by Western blotting.

Sample	Western Blotting
Human	+++
Mouse	ND
Rat	ND

(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.

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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PI348500

(Rev 10/08) DCC-08-1089

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BACKGROUND

Eph receptors belong to a family of receptor tyrosine kinases. Both ephrins, the ligands for Eph receptors, 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.

EphA3 receptor, also known as Cek4, Mek4, Hek, Tyro4 and Hek4, is thought to repel receptor positive myoblasts and axons away from the limb bud and towards the body wall³. EphA3 receptor is involved in targeting of the retinotectal projection and the organization of the retinotectal pathway⁴⁻⁵.

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. Kilpatrick TJ et al. *Mol Cell Neurosci*. 7 (1): 62-74, 1996.
4. Nakamoto M et al *Cell* 86 (5): 755-766, 1996.
5. Marcus RC et al. *Dev Biol*. 180 (2): 786-789, 1996.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Rabbit anti-ephrin-B1	ZMD.41	34-3500
Rabbit anti-ephrin-B1	ZMD.41	18-2304
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-A4	ZMD.56	34-3700
Rabbit anti-ephrin-A4	ZMD.56	18-2303
Rabbit anti-ephrin-B3	ZMD.42	34-3600
Rabbit anti-ephrin-B3	ZMD.42	18-2305
Mouse anti-Chicken ephrin-B1	11B3	35-5900
Rabbit anti-Chicken EphB5	ZMD.225	34-7500
Rabbit anti-EphA2	ZMD.224	34-7400
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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