



Qty: 100 µg/200 µL

Mouse anti-EphA3 Receptor

Catalog No. 37-3200

Lot No.

Mouse anti-EphA3 Receptor

FORM

This monoclonal antibody is supplied as a 200 µL aliquot at a concentration of 0.5 mg/mL in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein-A chromatography.

CLONE: 5E11F2

ISOTYPE: IgG_{2a/kappa}

IMMUNOGEN

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

SPECIFICITY

On Western Blot analysis, this antibody reacts specifically with recombinant human EphA3 receptor without cross-reaction with EphA4 receptor expressed in transfected HEK-293 cells. The antibody reactivity was confirmed by Western Blot and Immunoprecipitation analyses.

REACTIVITY

Reactivity has been confirmed with human EphA3 receptor transfected HEK-293 cell lysate. The molecular weight for human EphA3 receptor is ~110 kDa on Western blots. Based on sequence homology, the antibody should also recognize the rat or mouse EphA3 receptor.

Sample	Immunoprecipitation	Western Blotting	ELISA
Rat	+++	+++	N/A
Immunogen	N/A	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.

Western Blotting: 1-3 µg/mL

ELISA: 0.1-1.0 µg/mL

Immunoprecipitation: 5-10 µg/each

STORAGE

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

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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. 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, 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 wall. EphA3 receptor is involved in targeting of the retinotectal projection and the organization of the retinotectal pathway.

REFERENCES

1. Holder N and Klein R. *Development* 126(10):2033-44, 1999.
2. Flanagan JG and Vanderhaeghen P. *Annu Rev Neurosci* 21:309-45, 1998.
3. Pasquale EB. *Curr Opin Cell Biol* 9(5): p. 608-15, 1997.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Rabbit anti-ephrin-A1	ZMD.39	34-3300
Rabbit anti-ephrin-A2	ZMD.40	34-3400
Rabbit anti-ephrin-A4	ZMD.56	34-3700
Rabbit anti-ephrin-B1	ZMD.41	34-3500
Rabbit anti-ephrin-B3	ZMD.42	34-3600
Mouse anti-ephrin-B (pan)	2D3E9	37-8100
Rabbit anti-EphA2 Receptor	ZMD.224	34-7400
Rabbit anti-EphA3 Receptor	ZMD.235	34-8500
Mouse anti-EphA4 Receptor	4C8H5	37-1600
Rabbit anti-EphA4 Receptor	ZMD.229	34-7900
Mouse anti-EphB2 Receptor	1A6C9	37-1700
Mouse anti-EphB4 Receptor	3D7F8	35-2900
Mouse anti-EphB4 Receptor	3D7G8	37-1800
Mouse anti-Chicken EphB4 Receptor	5G6H8	35-3000
ephrin Antibody Sampler Pack	Various	90-1000
Eph Receptor Antibody Sampler Pack	Various	90-1100
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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