

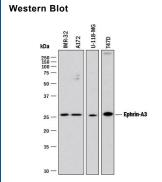
Human Ephrin-A3 Antibody

Monoclonal Mouse IgG_{2A} Clone # 80814 Catalog Number: MAB359

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Ephrin-A3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 5% cross-reactivity with recombinant human (rh) Ephrin-A5 is observed and no cross-reactivity with rhEphrin-A4, recombinant mouse (rm) Ephrin-A1, rmEphrin-B1, rhEphrin-B2, and rhEphrin-B3 is observed.	
Source	Monoclonal Mouse IgG _{2A} Clone # 80814	
Purification	Protein A or G purified from ascites	
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Ephrin-A3 Asn31-Ser209 Accession # AAA52368	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

APPLICATIONS Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website. Recommended Concentration Western Blot 2 µg/mL See Below

DATA



Detection of Human Ephrin-A3 by Western Blot. Western blot shows lysates of IMR-32 human neuroblastoma cell line, A172 human glioblastoma cell line, U-118-MG human glioblastoma/astrocytoma cell line, and T47D human breast cancer cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Ephrin-A3 Monoclonal Antibody (Catalog # MAB359) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Ephrin-A3 at approximately 26 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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FREFARA	ATION AND	STURAGE

 Reconstitution
 Reconstitute at 0.5 mg/mL in sterile PBS.

 Shipping
 The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

The product is simpled at animent temperature. Open receipt, store it immediately at the temperature recommended below

 * Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 $^{\circ}$ C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Ephrin-A3, also known as Ehk1-L, EFL-2, and LERK-3 (1), is a member of the ephrin ligand family which binds members of the Eph receptor family. All ligands share a conserved extracellular sequence, which most likely corresponds to the receptor binding domain. This conserved sequence consists of approximately 125 amino acids and includes four invariant cysteines. The A-class ligands have a GPI anchor following the conserved sequence. Ephrin-A3 has been shown to bind EphA2, EphA3, EphA6, EphA6, EphA7, EphA8, and EphB1 (2, 3). The extracellular domains of human and mouse Ephrin-A3 share 96% amino acid identity. Only membrane-bound or Fc-clustered ligands are capable of activating the receptor *in vitro*. While soluble monomeric ligands bind the receptor, they do not induce receptor autophosphorylation and activation (2). *In vivo*, the ligands and receptors display reciprocal expression (3). It has been found that nearly all receptors and ligands are expressed in developing and adult neural tissue (3). The Eph/ephrin families also appear to play a role in angiogenesis (3).

References:

- 1. Eph Nomenclature Committee [letter] (1997) Cell 90:403.
- 2. Flanagan, J.G. and P. Vanderhaegen (1998) Annu. Rev. Neurosci. 21:309.
- 3. Pasquale, E.B. (1997) Curr. Opin. Cell. Biol. 9:608.

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