



20150720BB

# Anti-Human Ephrin-A4 (#9H13)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>101-M392</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a mouse) immunized with human recombinant Ephrin-A4 extracellular domain.

## Target Background

<b>Synonyms (Target):</b>	EFNA4; EFL4; EPLG4; LERK4
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EphrinA4, also known as LERK4 and EFL4, 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 Aclass ligands have a GPI anchor following the conserved sequence. EphrinA4 has been shown to bind EphA2, EphA3, EphA4, EphA5, EphA6, EphA7, and EphB1. The extracellular domains of human and mouse EphrinA4 share 80% amino acid identity. Only membranebound or F 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. In vivo, the ligands and receptors display reciprocal expression. It has been found that nearly all receptors and ligands are expressed in developing and adult neural tissue. The Eph/ephrin families also appear to play a role in angiogenesis.

## Database References Target

<b>Protein RefSeq:</b>	NP_005218.1
<b>Uniprot ID:</b>	P52798
<b>mRNA RefSeq:</b>	NM_005227.2

## Product Specifications

<b>Host</b>	Mouse
<b>Reactivity against</b>	Human
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#9H13)
<b>Isotype</b>	IgG2
<b>Purification</b>	Protein G chromatography
<b>Antigen</b>	recombinant human Ephrin-A4 EC domain
<b>Formulation</b>	lyophilized
<b>Reconstitution buffer</b>	PBS (sterile)

**Reconstitution:** Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

**Stability:** Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

**Remarks:** This antibody was selected for its ability to detect human Ephrin-A4.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:

WB, IHC (P)

### Recommended usage:

Western Blot: 1:250 - 1:1000

IHC (Paraffin): Yes

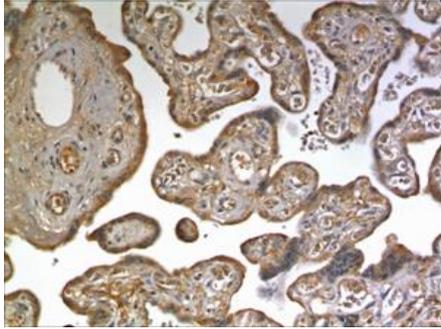
**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**



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### Application/Handling



**Fig. 1:** A 10% Buffer formalin fixed and paraffin embedded human placental tissue section (4um) is subjected to IHC staining using a mouse anti-human Ephrin-A4 monoclonal antibody. Tissue section was pretreated in citric buffer (ph6.0) with microwave for antigen retrieval before IHC is applied.