



20150126ML

# Anti-Mouse Ephrin-A2 (#7H45)

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

<b>Cat.-no.:</b>	<b>103-M376</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 rat) immunized with mouse recombinant protein of Ephrin-A2.

## Target Background

<b>Synonyms (Target):</b>	Efna2; Elf1; Epl6; CEK7L; Eplg6; Lerk6
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EphrinA2, also known as ELF1, Cek7L and LERK6, 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 (aa) and includes four invariant cysteines. The Aclass ligands have a GPI anchor following the conserved sequence. EphrinA2 has been shown to bind EphA2, EphA3, EphA4, EphA5, EphA6, EphA7, and EphA8. The extracellular domains of human and mouse EphrinA2 share 93% aa 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. 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_031935.3
<b>Uniprot ID:</b>	P52801
<b>mRNA RefSeq:</b>	NM_007909.3

## Product Specifications

<b>Host</b>	Rat
<b>Reactivity against</b>	Mouse
<b>Clonality</b>	Monoclonal Antibody
<b>Clone</b>	(#7H45)
<b>Isotype</b>	IgG2
<b>Purification</b>	Protein G/A chromatography
<b>Antigen</b>	recombinant mouse protein Ephrin-A2
<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 detects mouse Ephrin-A2 with WB and shows extremely weaker cross reactivity with mouse Ephrin-A3, and A4.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

## Applications

The antibody can be used within the following applications:

WB

**Recommended usage:**

Western Blot: 1:250 - 1:1000

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