

## Product datasheet for **CF501456**

### Ephrin A2 (EFNA2) Mouse Monoclonal Antibody [Clone ID: OTI2D6]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2D6
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:2000, IF 1:100, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human EFNA2 (NP_001396) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	21.3 kDa
Gene Name:	ephrin A2
Database Link:	<a href="#">NP_001396</a> <a href="#">Entrez Gene 13637 Mouse</a> <a href="#">Entrez Gene 1943 Human</a> <a href="#">O43921</a>



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**Background:**

This gene encodes a member of the ephrin family. The protein is composed of a signal sequence, a receptor-binding region, a spacer region, and a hydrophobic region. The EPH and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, particularly in the nervous system. Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. Posttranslational modifications determine whether this protein localizes to the nucleus or the cytoplasm. [provided by RefSeq]

**Synonyms:**

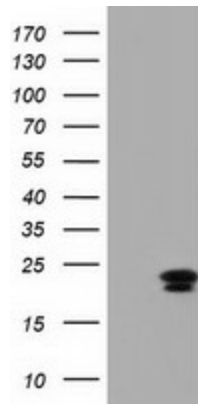
ELF-1; EPLG6; HEK7-L; LERK-6; LERK6

**Protein Families:**

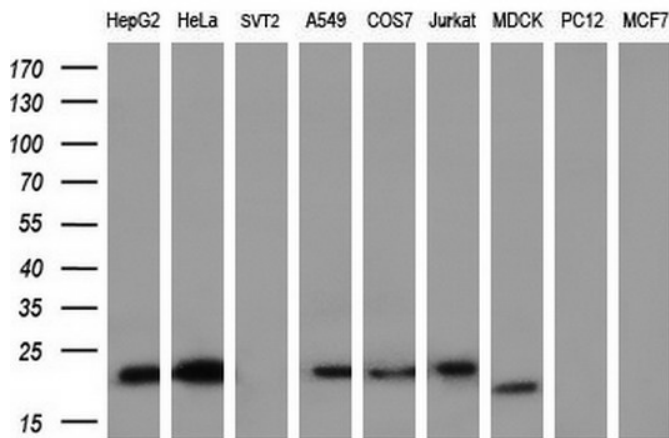
Druggable Genome

**Protein Pathways:**

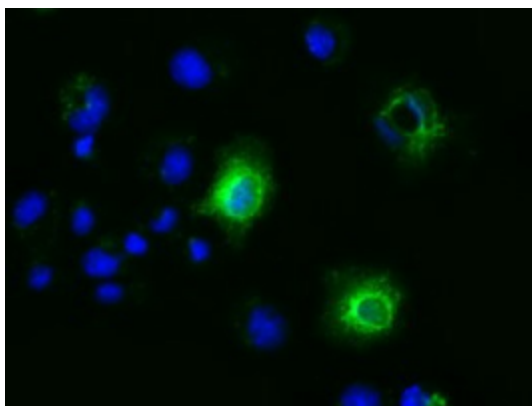
Axon guidance

**Product images:**


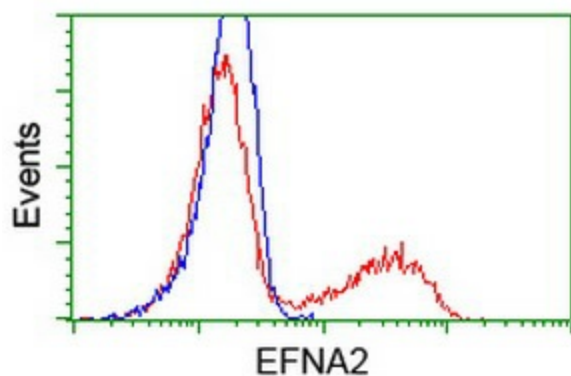
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY EFNA2 ([RC213728], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-EFNA2. Positive lysates [LY400546] (100ug) and [LC400546] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-EFNA2 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).



Anti-EFNA2 mouse monoclonal antibody ([TA501456]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY EFNA2 ([RC213728]).



HEK293T cells transfected with either [RC213728] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-EFNA2 antibody ([TA501456]), and then analyzed by flow cytometry.