

Product datasheet for **CF501457**

Ephrin A2 (EFNA2) Mouse Monoclonal Antibody [Clone ID: OTI4C3]

Product data:

| | |
|-------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI4C3 |
| Applications: | FC, IF, WB |
| Recommended Dilution: | WB 1:2000, IF 1:100, FLOW 1:100 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG1 |
| 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: | Homo sapiens ephrin A2 (EFNA2), mRNA. |
| Database Link: | NP_001396 Entrez Gene 13637 Mouse Entrez Gene 1943 Human O43921 |



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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:

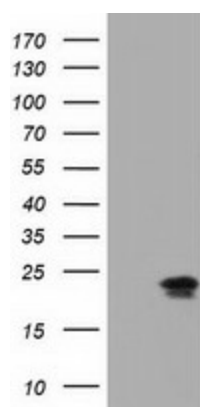
ELF-1; EPLG6; HEK7-L; LERK-6; LERK6

Protein Families:

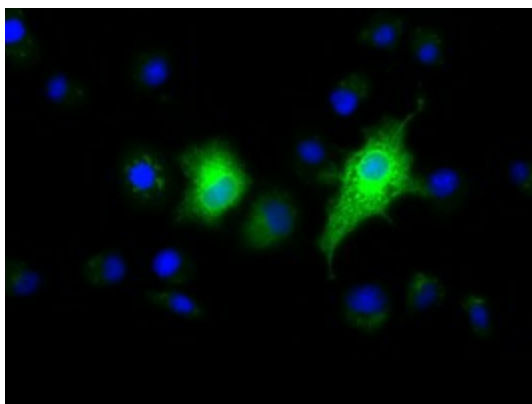
Druggable Genome

Protein Pathways:

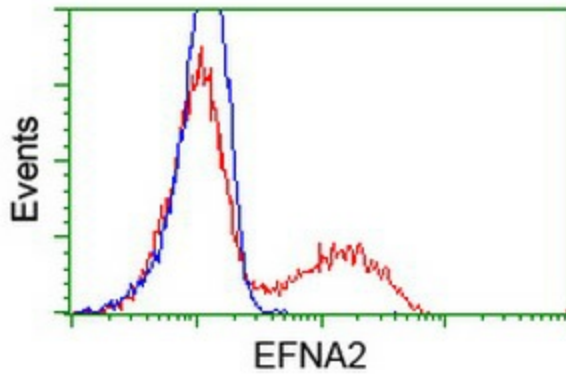
Axon guidance

Product images:

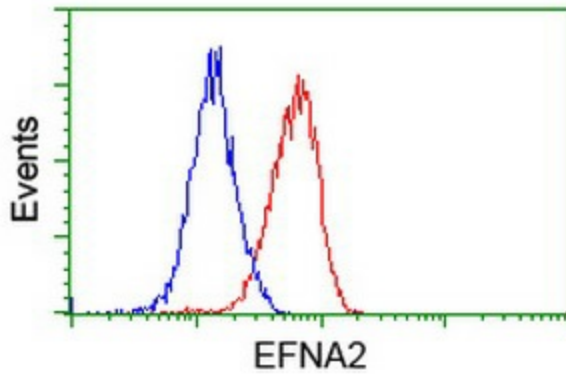
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY EFNA2 ([RC213728], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-EFNA2. Positive lysates [LY400546] (100ug) and [LC400546]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



Anti-EFNA2 mouse monoclonal antibody ([TA501457]) 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 ([TA501457]), and then analyzed by flow cytometry.



Flow cytometric Analysis of Jurkat cells, using anti-EFNA2 antibody ([TA501457]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).