



Rabbit Anti-FARP2 antibody

SL11459R

Product Name:	FARP2
Chinese Name:	鸟嘌呤核苷酸交换因子FARP2抗体
Alias:	FARP 2; FERM; FGD1 related Cdc42 GEF; FIR; FRG; KIAA0793; PLEKHC3; RhoGEF and pleckstrin domain protein 2; FARP2_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	120kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human FARP2:601-700/1054
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	FARP2 is a 1,545 amino acid protein that contains one FERM domain, one DH domain and two PH domains. It exists as two alternatively spliced isoforms that are abundantly expressed in brain, lung, and testis as well as in embryonic hippocampal and cortical neurons. FARP2 functions as a Rho-guanine nucleotide exchange factor that activates RAC1 and is thought to regulate neurite remodeling of embryonic neurons. Sema3A binding to neuropilin-1 induces the dissociation of FARP2 from plexin-A1, thereby

activating FARP2's Rac GEF activity which is critical for repulsion of outgrowing axons and suppression of neuronal adhesion. Downregulation of the FARP2 gene has been implicated in autism.

Function:

FARP2 is a Rho-guanine nucleotide exchange factor that activates RAC1. It plays a role in the response to class 3 semaphorins and remodeling of the actin cytoskeleton.

Subunit:

Interacts with PLXNA1. Interaction with PLXNA1 or PIP5K1C lowers its guanine nucleotide exchange activity. Dissociates from PLXNA1 when SEMA3A binds to the receptor. Interacts with PIP5K1C via its FERM domain. The interaction with PIP5K1C is enhanced by SEMA3A binding

Similarity:

Contains 1 DH (DBL-homology) domain.

Contains 1 FERM domain.

Contains 2 PH domains.

SWISS:

O94887

Gene ID:

9855

Database links:

[Entrez Gene: 9855](#)Human

[Entrez Gene: 227377](#)Mouse

[SwissProt: O94887](#)Human

[SwissProt: Q91VS8](#)Mouse

[Unigene: 726316](#)Human

[Unigene: 243091](#)Mouse

[Unigene: 28761](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.