10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DANREs1pr1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # Azb10039a

Product Information

Application	WB, E
Primary Accession	Q9DDK4
Reactivity	Zebrafish
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	40601
Antigen Region	311-335

Additional Information

Gene ID	64617
Other Names	Sphingosine 1-phosphate receptor 1, S1P receptor 1, S1P1, Sphingosine 1-phosphate receptor Edg-1, S1P receptor Edg-1, s1pr1, edg1
Target/Specificity	This DANREs1pr1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 311-335 amino acids from the C-terminal region of DANREs1pr1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DANREs1pr1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	s1pr1
Synonyms	edg1
Function	G-protein coupled receptor for the bioactive lysosphingolipid sphingosine 1-phosphate (S1P) that seems to be coupled to the G(i) subclass of heteromeric G proteins. Signaling leads to the activation of RAC1, SRC,

PTK2/FAK1 and MAP kinases. Plays an important role in cell migration, probably via its role in the reorganization of the actin cytoskeleton and the formation of lamellipodia in response to stimuli that increase the activity of the sphingosine kinase SPHK1. Required for normal chemotaxis toward sphingosine 1-phosphate.

Cellular Location Cell membrane; Multi-pass membrane protein.

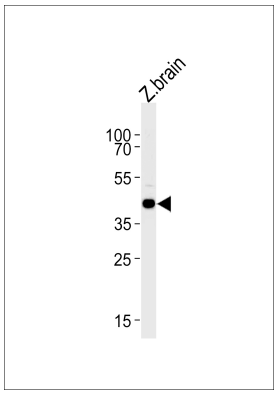
Background

Receptor for the lysosphingolipid sphingosine 1-phosphate (S1P). S1P is a bioactive lysophospholipid that elicits diverse physiological effect on most types of cells and tissues. This inducible epithelial cell G-protein-coupled receptor may be involved in the processes that regulate the differentiation of endothelial cells. Seems to be coupled to the G(i) subclass of heteromeric G proteins.

References

Im D.-S., et al. Biochem. Biophys. Res. Commun. 279:139-143(2000).

Images



DANREs1pr1 Antibody (C-term) (Cat. #Azb10039a) western blot analysis in zebra fish brain tissue lysates (35ug/lane).This demonstrates the DANREs1pr1 antibody detected the DANREs1pr1 protein (arrow).