DATASHEET

EDG5 Rabbit Polyclonal Antibody

CAT. NO. APA10465

KEY FEATURES

Target	EDG5	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IHC, IF/ICC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Receptor for the lysosphingolipid sphingosine 1-phosphate (S1P) . S1P is a bioactive lysophospholipid that elicits diverse physiological effects on most types of cells and tissues . When expressed in rat HTC4 hepatoma cells, is capable of mediating S1P-induced cell proliferation and suppression of apoptosis . Receptor for the chemokine-like protein FAM19A5 . Mediates the inhibitory effect of FAM19A5 on vascular smooth muscle cell proliferation and migration . In lymphoid follicles, couples the binding of S1P to the activation of GNA13 and downstream inhibition of AKT activation leading to suppression of germinal center (GC) B cell growth and migration outside the GC niche.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:200
IF/ICC	1:100 - 1:500

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to EDG5
Specificity	Recognizes endogenous levels of EDG5 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human EDG5. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 38 kD; Observed: 55 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	EDG5; Sphingosine 1-phosphate receptor 2; S1P receptor 2; S1P2; Endothelial differentiation G-protein coupled receptor 5; Sphingosine 1-phosphate receptor Edg-5; S1P receptor Edg-5
Gene Symbol	S1PR2
Entrez Gene	9294(Human); 14739(Mouse); 29415(Rat)
SwissProt	O95136(Human); P52592(Mouse); P47752(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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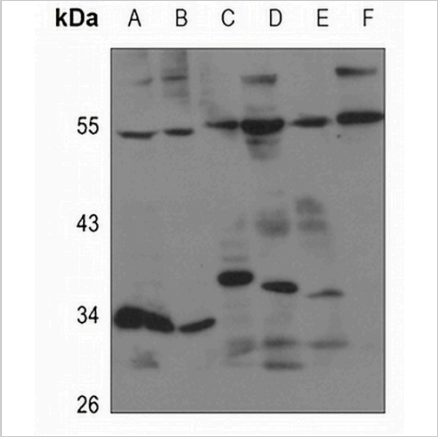
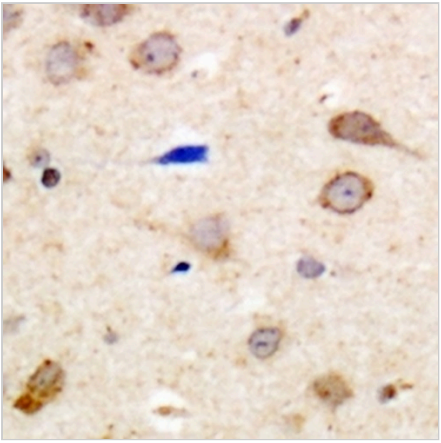
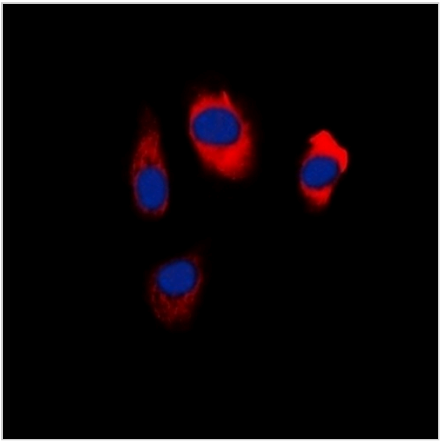
DATA



Western blot analysis of EDG5 expression in Hela (A), H446 (B), mouse kidney (C), mouse testis (D), rat kidney (E), rat testis (F) whole cell lysates. (Predicted band size: 38 kD; Observed band size: 55 kD)



Immunohistochemical analysis of EDG5 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of EDG5 staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.