abcam

ab214464

Anti-EDG8 antibody

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.4 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 48.98% TBS, 1X, 1% BSA
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Human S1PR5 aa 1-50 conjugated to Keyhole Limpet Haemocyanin. The exact immunogen used to generate this antibody is proprietary information. Database link Q9H228
Purification technique	Affinity purification Protein A
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Rat
Dilution info	1/100 - 1/500
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Human
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/300

Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Human
Dilution info	-
Notes	-

Target data

See full target information S1PR5

Function	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. Is coupled to both the G(i/0)alpha and G(12) subclass of heteromeric G-proteins (By similarity). May play a regulatory role in the transformation of radial glial cells into astrocytes and may affect proliferative activity of these cells.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	EDG8 also known as S1P5 is a receptor with a mass of approximately 41 kDa. It belongs to the G-protein coupled receptor family and specifically binds to sphingosine-1-phosphate (S1P). Researchers often find EDG8 expression in tissues such as the central nervous system spleen and placenta. It plays an important role in mediating cellular responses to extracellular signals through its interaction with ligands.
Biological function summary	S1P5 functions in cellular growth survival and migration. It is part of a receptor complex that mediates immune response and neurologic functions. This receptor transmits signals that regulate cellular shape and cytoskeletal architecture. S1P5 influences various processes such as lymphocyte trafficking and oligodendrocyte maturation supporting its role in immune and neurological systems.
Pathways	EDG8 engages in the sphingolipid signaling pathway and is also important in the regulation of the immune system. This receptor interacts with other proteins like G-protein subunits which transduce signals from extracellular factors and promote intracellular responses. The protein S1P5 links to the Akt and MAPK pathways which are important for cell survival and proliferation. These pathways help mediate cellular responses through signal transduction and protein activation.
Associated diseases and disorders	S1P5 associates notably with multiple sclerosis and some types of cancer. Dysfunction in this receptor's signaling can disrupt normal cell function and immune regulation. S1P5's interactions with proteins like S1P1 and S1P3 further implicate its role in the progression of these diseases. Research continues to explore how modulating EDG8 can offer therapeutic strategies for managing these conditions effectively.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

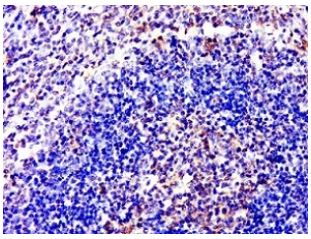
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

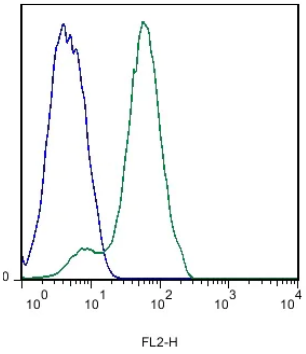
3 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-EDG8 antibody (ab214464)

EDG8 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-EDG8 antibody

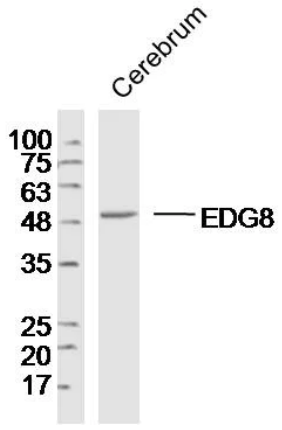
Immunohistochemical analysis of paraformaldehyde-fixed, paraffin-embedded rat spleen tissue labeling EDG8 with ab214464 at 1/400 dilution, followed by conjugation to the secondary antibody and DAB staining.



Flow Cytometry - Anti-EDG8 antibody (ab214464)

EDG8 Flow Cytometry staining using rabbit Anti-EDG8 antibody

Flow Cytometry of Mouse Spleen with ab214464 at 1/50.



Western blot - Anti-EDG8 antibody (ab214464)

All lanes:
Western blot - Anti-EDG8 antibody (ab214464) at 1/300 dilution

All lanes:
Mouse brain

Secondary

All lanes:
Conjugated secondary antibody at 1/20000 dilution

Predicted band size: 42 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.