

EDG-6 (1) : sc-65216

BACKGROUND

The EDG (endothelial differentiation gene) family of G protein-coupled receptors consists of eight family members that bind lysophospholipid (LPL) mediators, including sphingosine-1-phosphate (SPP) and lysophosphatidic acid (LPA). EDG-1, EDG-3, EDG-5 (also designated H218 and AGR16) and EDG-8 bind SPP with high affinity. EDG-6 is a low affinity receptor for SPP. LPA preferentially binds to EDG-2, EDG-4 and EDG-7. The EDG receptors couple to multiple G proteins to signal through Ras, MAP kinase, Rho, Phospholipase C or other tyrosine kinases, which lead to cell survival, growth, migration and differentiation. EDG-1 signals through G_i proteins to activate Akt and is expressed in glioma cells. EDG-2 is expressed in brain, especially in white matter tract regions, while EDG-3 is expressed in cardiovascular tissue and in cerebellum. EDG-4 is highly expressed on leukocytes and brain, and EDG-5 has wide tissue distribution, including cardiovascular tissue and brain. Expressed in lymphoid and hematopoietic tissues and in lung, EDG-6 signals through $G_{i/o}$ proteins, which activate growth related pathways.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EDG6 (human) mapping to 19p13.3.

SOURCE

EDG-6 (1) is a mouse monoclonal antibody raised against a unique synthetic peptide derived from the C-terminal of EDG-6 of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

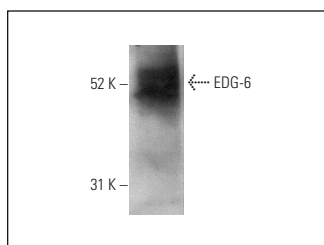
Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

EDG-6 (1) is recommended for detection of EDG-6 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] and flow cytometry (1 μ g per 1×10^6 cells).

Suitable for use as control antibody for EDG-6 siRNA (h): sc-43747, EDG-6 shRNA Plasmid (h): sc-43747-SH and EDG-6 shRNA (h) Lentiviral Particles: sc-43747-V.

DATA



EDG-6 (1) : sc-65216. Western blot analysis of EDG-6 expression in human EDG-6 transfected whole cell lysate.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.