

GLT8D1 (E-13): sc-102559

BACKGROUND

GLT8D1 (glycosyltransferase 8 domain-containing protein 1), also known as GALA4A, is a 371 amino acid single-pass type II transmembrane protein that is expressed by a gene residing on human chromosome 3. Chromosome 3 is made up of about 214 million bases encoding over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci. Key tumor suppressing genes on chromosome 3 include those that encode the apoptosis mediator RASSF1, the cell migration regulator HYAL1 and the angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth Disease are a few of the numerous genetic diseases associated with chromosome 3. There are two isoforms of GLT8D1 that are produced as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GLT8D1 (human) mapping to 3p21.1; Glt8d1 (mouse) mapping to 14 B.

SOURCE

GLT8D1 (E-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of GLT8D1 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-102559 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GLT8D1 (E-13) is recommended for detection of GLT8D1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with family members GLT8D2, GLT8D3 or GLT8D4.

Suitable for use as control antibody for GLT8D1 siRNA (h): sc-78215, GLT8D1 siRNA (m): sc-145436, GLT8D1 shRNA Plasmid (h): sc-78215-SH, GLT8D1 shRNA Plasmid (m): sc-145436-SH, GLT8D1 shRNA (h) Lentiviral Particles: sc-78215-V and GLT8D1 shRNA (m) Lentiviral Particles: sc-145436-V.

Molecular Weight of GLT8D1: 42 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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