

GDAP1 (E-15): sc-86468

BACKGROUND

Glutathione S-transferases (GSTs) function to conjugate reduced glutathione to many exogenous and endogenous hydrophobic electrophiles. Although it shares the carboxy- and amino-terminal glutathione S-transferase domains, GDAP1 (ganglioside-induced differentiation-associated protein 1) is characterized as a GST-like protein because it contains an extended GST domain II and a predicted transmembrane domain, two characteristics which are unusual for GST family members. GDAP1 may function in a signal transduction pathway that is responsible for ganglioside-induced neurite differentiation and also may play a role in protecting myelin membranes from free-radical damage. Mutations in the gene encoding GDAP1 is the cause of many forms of Charcot-Marie-Tooth disease, a common inherited disorder of the peripheral nervous system that is characterized by reduced nerve conduction velocities, slow progressive distal muscle atrophy and absent deep tendon reflexes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GDAP1 (human) mapping to 8q21.11; Gdap1 (mouse) mapping to 1 A3.

SOURCE

GDAP1 (E-15) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of GDAP1 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-86468 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GDAP1 (E-15) is recommended for detection of GDAP1 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).

GDAP1 (E-15) is also recommended for detection of GDAP1 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for GDAP1 siRNA (h): sc-77458, GDAP1 siRNA (m): sc-145369, GDAP1 shRNA Plasmid (h): sc-77458-SH, GDAP1 shRNA Plasmid (m): sc-145369-SH, GDAP1 shRNA (h) Lentiviral Particles: sc-77458-V and GDAP1 shRNA (m) Lentiviral Particles: sc-145369-V.

Molecular Weight of GDAP1: 41 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.