SANTA CRUZ BIOTECHNOLOGY, INC.

GLB1L2 (I-12): sc-138307

BACKGROUND

GLB1L2 (β-galactosidase-1-like protein 2) is a 636 amino acid secreted protein belonging to the glycosyl hydrolase 35 family. The gene encoding GLB1L2 maps to human chromosome 11q25. With approximately 135 million base pairs and 1,400 genes, chromosome 11 makes up around 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded Atm gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. Atm mutation leads to the disorder known as ataxia-telangiectasia. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GLB1L2 (human) mapping to 11q25; Glb1l2 (mouse) mapping to 9 A4.

SOURCE

GLB1L2 (I-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of GLB1L2 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-138307 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GLB1L2 (I-12) is recommended for detection of GLB1L2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with GLB1L or GLB1L3.

GLB1L2 (I-12) is also recommended for detection of GLB1L2 in additional species, including canine.

Suitable for use as control antibody for GLB1L2 siRNA (h): sc-96520, GLB1L2 siRNA (m): sc-145414, GLB1L2 shRNA Plasmid (h): sc-96520-SH, GLB1L2 shRNA Plasmid (m): sc-145414-SH, GLB1L2 shRNA (h) Lentiviral Particles: sc-96520-V and GLB1L2 shRNA (m) Lentiviral Particles: sc-145414-V.

Molecular Weight of GLB1L2: 72 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.