

# GLB1L2 (B-10): sc-393202

## BACKGROUND

GLB1L2 ( $\beta$ -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

- Grossfeld, P.D., et al. 2004. The 11q terminal deletion disorder: a prospective study of 110 cases. *Am. J. Med. Genet. A* 129A: 51-61.
- Zehelein, J., et al. 2006. Skipping of Exon 1 in the *KCNQ1* gene causes Jervell and Lange-Nielsen syndrome. *J. Biol. Chem.* 281: 35397-35403.
- Taylor, T.D., et al. 2006. Human chromosome 11 DNA sequence and analysis including novel gene identification. *Nature* 440: 497-500.
- Ataga, K.I., et al. 2007.  $\beta$ -thalassaemia and sickle cell anaemia as paradigms of hypercoagulability. *Br. J. Haematol.* 139: 3-13.
- Berger, A.C., et al. 2007. The subcellular localization of the Niemann-Pick type C proteins depends on the adaptor complex AP-3. *J. Cell Sci.* 120: 3640-3652.

## CHROMOSOMAL LOCATION

Genetic locus: GLB1L2 (human) mapping to 11q25.

## SOURCE

GLB1L2 (B-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 609-634 near the C-terminus of GLB1L2 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>2b</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

GLB1L2 (B-10) is available conjugated to agarose (sc-393202 AC), 500  $\mu$ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393202 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-393202 PE), fluorescein (sc-393202 FITC), Alexa Fluor<sup>®</sup> 488 (sc-393202 AF488), Alexa Fluor<sup>®</sup> 546 (sc-393202 AF546), Alexa Fluor<sup>®</sup> 594 (sc-393202 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-393202 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-393202 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-393202 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-393202 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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## APPLICATIONS

GLB1L2 (B-10) is recommended for detection of GLB1L2 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], 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).

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

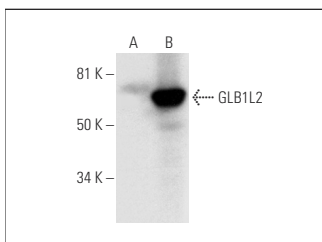
Molecular Weight of GLB1L2: 72 kDa.

Positive Controls: human GLB1L2 transfected HEK293T whole cell lysate.

## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

## DATA



GLB1L2 (B-10): sc-393202. Western blot analysis of GLB1L2 expression in non-transfected (A) and human GLB1L2 transfected (B) HEK293T whole cell lysates.

## 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](http://www.scbt.com) for detailed protocols and support products.