

GPBP1L1 (P-19): sc-242937

BACKGROUND

Transcription factors are required for the initiation of transcription. They regulate transcription by binding to DNA at specific nucleotide sequences within promoters and enhancers. Transcription factors, which may also bind to RNA polymerase or to other transcription factors, are involved in the preinitiation complex formation. Upstream transcription factors and inducible transcription factors bind upstream of the initiation site to repress or stimulate transcription. Upstream factors are unregulated, while inducible factors require inhibition or activation. GPBP1L1 (GC-rich promoter binding protein 1-like 1), also known as vasculin-like protein 1 or SP192, is a 474 amino acid protein belonging to the vasculin family. Localizing to nucleus, GPBP1L1 may function as a transcription factor. The gene encoding GPBP1L1 maps to human chromosome 1p34.1 and mouse chromosome 4 D1.

REFERENCES

1. Tayebi, N., et al. 2001. Gaucher disease and parkinsonism: a phenotypic and genotypic characterization. *Mol. Genet. Metab.* 73: 313-321.
2. Plasilova, M., et al. 2004. Exclusion of an extracolonic disease modifier locus on chromosome 1p33-36 in a large Swiss familial adenomatous polyposis kindred. *Eur. J. Hum. Genet.* 12: 365-371.
3. Gregory, S.G., et al. 2006. The DNA sequence and biological annotation of human chromosome 1. *Nature* 441: 315-321.
4. Allen, Z.J., et al. 2007. Molecular identity of olfactory bulb interneurons: transcriptional codes of periglomerular neuron subtypes. *J. Mol. Histol.* 38: 517-525.
5. Sahara, S., et al. 2007. Sp8 exhibits reciprocal induction with Fgf8 but has an opposing effect on anterior-posterior cortical area patterning. *Neural Dev.* 2: 10.
6. Zembrzycki, A., et al. 2007. Genetic interplay between the transcription factors Sp8 and Emx2 in the patterning of the forebrain. *Neural Dev.* 2: 8.
7. Ernst, C., et al. 2007. Confirmation of region-specific patterns of gene expression in the human brain. *Neurogenetics* 8: 219-224.
8. Yokoi, T., et al. 2009. Analysis of the vitreous membrane in a case of type 1 Stickler syndrome. *Graefes Arch. Clin. Exp. Ophthalmol.* 247: 715-718.

CHROMOSOMAL LOCATION

Genetic locus: GPBP1L1 (human) mapping to 1p34.1; Gbp1l1 (mouse) mapping to 4 D1.

SOURCE

GPBP1L1 (P-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of GPBP1L1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-242937 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GPBP1L1 (P-19) is recommended for detection of GPBP1L1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

GPBP1L1 (P-19) is also recommended for detection of GPBP1L1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for GPBP1L1 siRNA (h): sc-78775, GPBP1L1 siRNA (m): sc-145682, GPBP1L1 shRNA Plasmid (h): sc-78775-SH, GPBP1L1 shRNA Plasmid (m): sc-145682-SH, GPBP1L1 shRNA (h) Lentiviral Particles: sc-78775-V and GPBP1L1 shRNA (m) Lentiviral Particles: sc-145682-V.

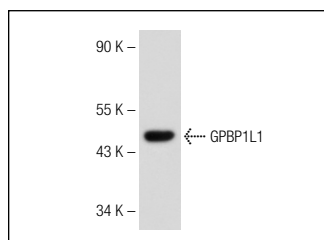
Molecular Weight of GPBP1L1: 52 kDa.

Positive Controls: rat cerebellum extract: sc-2398.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



GPBP1L1 (P-19): sc-242937. Western blot analysis of GPBP1L1 expression in rat cerebellum tissue extract.

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.