

GPATCH4 (E-15): sc-241480

BACKGROUND

GPATCH4 (G patch domain-containing protein 4) is a 446 amino acid protein containing one G-patch domain. Existing as three alternatively spliced isoforms, the gene encoding GPATCH4 maps to human chromosome 1q23.1 and mouse chromosome 3 F1. Spanning around 260 million base pairs, chromosome 1 is the largest human chromosome and comprises 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1. A breakpoint has been identified in 1q which disrupts the DISC1 gene and is linked to schizophrenia. Aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GPATCH4 (human) mapping to 1q23.1.

SOURCE

GPATCH4 (E-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of GPATCH4 of human origin.

STORAGE

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

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-241480 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GPATCH4 (E-15) is recommended for detection of GPATCH4 of 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); non cross-reactive with other GPATCH family members.

GPATCH4 (E-15) is also recommended for detection of GPATCH4 in additional species, including equine, canine and porcine.

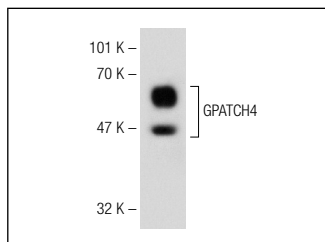
Suitable for use as control antibody for GPATCH4 siRNA (h): sc-78751, GPATCH4 shRNA Plasmid (h): sc-78751-SH and GPATCH4 shRNA (h) Lentiviral Particles: sc-78751-V.

Molecular Weight (predicted) of GPATCH4: 50 kDa.

Molecular Weight (observed) of GPATCH4: 70 kDa.

Positive Controls: TT whole cell lysate: sc-364195.

DATA



GPATCH4 (E-15): sc-241480. Western blot analysis of GPATCH4 expression in TT whole cell lysate.

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.