

OGFRL1 (N-12): sc-137654

BACKGROUND

The proenkephalin precursor proteins belong to the opioid neuropeptide precursor family and are proteolytically processed to form active opioid peptides that function as ligands for opioid receptors. OGFRL1 (opioid growth factor receptor-like protein 1) is a 451 amino acid protein belonging to the opioid growth factor receptor family. OGFRL1 is ubiquitously expressed and is encoded by a gene mapping to human chromosome 6. Making up nearly 6% of the human genome, chromosome 6 contains around 1,200 genes within 170 million base pairs of sequence. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

REFERENCES

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3. Cesari, R., et al. 2003. Parkin, a gene implicated in autosomal recessive juvenile parkinsonism, is a candidate tumor suppressor gene on chromosome 6q25-q27. *Proc. Natl. Acad. Sci. USA* 100: 5956-5961.
4. Casrouge, A., et al. 2004. The human and mouse orthologous LIM-only proteins respectively encoded in chromosome 6 and 17 show a different expression pattern. *Microbes Infect.* 6: 1063-1072.
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CHROMOSOMAL LOCATION

Genetic locus: OGFRL1 (human) mapping to 6q13; Ogfr1 (mouse) mapping to 1 A5.

SOURCE

OGFRL1 (N-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of OGFRL1 of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

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-137654 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

OGFRL1 (N-12) is recommended for detection of OGFRL1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

Suitable for use as control antibody for OGFRL1 siRNA (h): sc-95495, OGFRL1 siRNA (m): sc-150187, OGFRL1 shRNA Plasmid (h): sc-95495-SH, OGFRL1 shRNA Plasmid (m): sc-150187-SH, OGFRL1 shRNA (h) Lentiviral Particles: sc-95495-V and OGFRL1 shRNA (m) Lentiviral Particles: sc-150187-V.

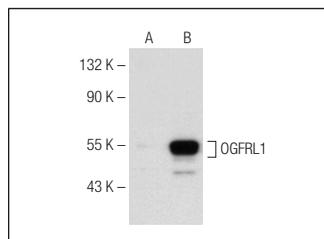
Molecular Weight of OGFRL1: 51 kDa.

Positive Controls: OGFRL1 (h): 293T Lysate: sc-111967.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



OGFRL1 (N-12): sc-137654. Western blot analysis of OGFRL1 expression in non-transfected: sc-117752 (A) and human OGFRL1 transfected: sc-111967 (B) 293T 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.