

HM74 (L-17): sc-27877

BACKGROUND

HM74 (GPR109B) and the highly homologous gene, HM74A (GPR109A) code for Gi protein-coupled orphan receptors involved in the metabolic effects of niacin. HM74 is also a low affinity receptor for nicotinic acid. HM74, a member of the G protein-coupled receptor (GPCR) superfamily, functions in leukocyte chemoattraction. Like all members of this family, HM74 contains 7 transmembrane domains, but it lacks the N-linked glycosylation sites near the N-terminus present in other family members. Furthermore, HM74 shows a lower sequence homology than most family members, possibly implying different ligand specificity. HM74 is highly expressed in adipose tissue.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: HCAR2/HCAR3 (human) mapping to 12q24.31.

SOURCE

HM74 (L-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a C-terminal extracellular domain of HM74 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-27877 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

HM74 (L-17) is recommended for detection of HM74A and HM74B of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Molecular Weight of HM74: 50 kDa.

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) 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.

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.



Try **HM74 (D-8): sc-377292** or **HM74 (A-11): sc-373932**, our highly recommended monoclonal alternatives to HM74 (L-17).