

GPR175 (m): 293T Lysate: sc-120597

BACKGROUND

G protein-coupled receptors (GPRs), also known as seven transmembrane receptors, heptahelical receptors or 7TM receptors, comprise a superfamily of proteins that play a role in many different stimulus-response pathways. G protein coupled receptors translate extracellular signals into intracellular signals (G protein activation) and they respond to a variety of signaling molecules, such as hormones and neurotransmitters. GPR175 (G protein-coupled receptor 175), also known as TPRA40 or PP6566, is a 373 amino acid multi-pass membrane protein that is ubiquitously expressed and functions as a G-protein coupled receptor. The gene encoding GPR175 maps to human chromosome 3 and is expressed as multiple alternatively spliced isoforms.

REFERENCES

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2. Ji, T.H., Grossmann, M. and Ji, I. 1998. G protein-coupled receptors. I. Diversity of receptor-ligand interactions. *J. Biol. Chem.* 273: 17299-17302.
3. Yang, H., Egan, J.M., Rodgers, B.D., Bernier, M. and Montrose-Rafizadeh, C. 1999. Differential expression of a novel seven transmembrane domain protein in epididymal fat from aged and diabetic mice. *Endocrinology* 140: 2859-2867.
4. Online Mendelian Inheritance in Man, OMIM™. 2003. Johns Hopkins University, Baltimore, MD. MIM Number: 608336. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
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CHROMOSOMAL LOCATION

Genetic locus: Gpr175 (mouse) mapping to 6 D1.

PRODUCT

GPR175 (m): 293T Lysate represents a lysate of mouse GPR175 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

GPR175 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive GPR175 antibodies. Recommended use: 10-20 µl per lane.

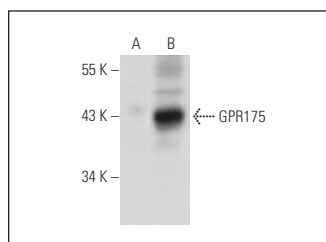
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

GPR175 (6H2): sc-134350 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse GPR175 expression in GPR175 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



GPR175 (6H2): sc-134350. Western blot analysis of GPR175 expression in non-transfected: sc-117752 (A) and mouse GPR175 transfected: sc-120597 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.