

# MRGF (G-13): sc-138443

## BACKGROUND

MRGF (MAS-related GPR, member F), also known as RTA, PSEC0142, GPR140 (G-protein coupled receptor 140) or GPR168 (G-protein coupled receptor 168), is a 343 amino acid multi-pass membrane protein that functions as an orphan receptor. MRGF belongs to the G-protein coupled receptor 1 family and Mas subfamily, and is thought to have a role in pain sensation and modulation by regulating nociceptor function. The gene encoding MRGF maps to human chromosome 11, which houses over 1,400 genes and comprises nearly 4% of the human genome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in genes that map to chromosome 11.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: MRGPRF (human) mapping to 11q13.3; Mrgprf (mouse) mapping to 7 F5.

## SOURCE

MRGF (G-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within a C-terminal cytoplasmic domain of MRGF 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-138443 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

MRGF (G-13) is recommended for detection of MRGF 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).

MRGF (G-13) is also recommended for detection of MRGF in additional species, including equine, canine and bovine.

Suitable for use as control antibody for MRGF siRNA (h): sc-96694, MRGF siRNA (m): sc-149571, MRGF shRNA Plasmid (h): sc-96694-SH, MRGF shRNA Plasmid (m): sc-149571-SH, MRGF shRNA (h) Lentiviral Particles: sc-96694-V and MRGF shRNA (m) Lentiviral Particles: sc-149571-V.

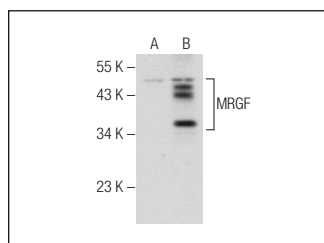
Molecular Weight of MRGF: 38 kDa.

Positive Controls: MRGF (h): 293T Lysate: sc-112769.

## 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



MRGF (G-13): sc-138443. Western blot analysis of MRGF expression in non-transfected: sc-117752 (A) and human MRGF transfected: sc-112769 (B) 293T whole cell lysates.

## RESEARCH USE

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