BACKGROUND

REEP5 (receptor expression-enhancing protein 5), also known as C5orf18, DP1, TB2 or D5S346, is a 189 amino acid multi-pass membrane protein. Thought to promote the functional cell surface expression of olfactory receptors, REEP5 belongs to the DP1 family and is encoded by a gene that maps to chromosome 5. With 181 million base pairs encoding around 1,000 genes, chromosome 5 is about 6% of human genomic DNA. Chromosome 5 is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5 associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri-du-chat syndrome. Deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

CHROMOSOMAL LOCATION

Genetic locus: REEP5 (human) mapping to 5q22.2.

SOURCE

REEP5 (E-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of REEP5 of human origin.

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-133405 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

REEP5 (E-13) is recommended for detection of REEP5 of 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); non cross-reactive with other REEP family members.

REEP5 (E-13) is also recommended for detection of REEP5 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for REEP5 siRNA (h): sc-91981, REEP5 shRNA Plasmid (h): sc-91981-SH and REEP5 shRNA (h) Lentiviral Particles: sc-91981-V.

Molecular Weight (predicted) of REEP5: 21 kDa.

Molecular Weight (observed) of REEP5: 15/17 kDa.

Positive Controls: REEP5 (h): 293T Lysate: sc-117085, K-562 whole cell lysate: sc-2203 or HL-60 whole cell lysate: sc-2209.

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
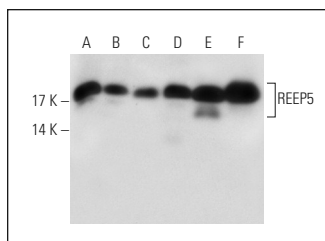
REEP5 (E-13): sc-133405. Western blot analysis of REEP5 expression in HeLa (**A**), HL-60 (**B**), Jurkat (**C**), K-562 (**D**), MCF7 (**E**) and HISM (**F**) whole cell lysates.
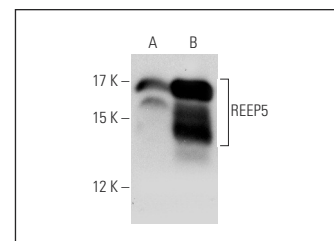
REEP5 (E-13): sc-133405. Western blot analysis of REEP5 expression in non-transfected: sc-117752 (**A**) and human REEP5 transfected: sc-117085 (**B**) 293T whole cell lysates.

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.

MONOS
Satisfation
Guaranteed

Try **REEP5 (H-10): sc-393508** or **REEP5 (F-12): sc-393522**, our highly recommended monoclonal alternatives to REEP5 (E-13).