For Research Use Only

REEP5 Polyclonal antibody

Catalog Number:14643-1-AP Featured Product 51 Publications

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Basic Information

Catalog Number:
14643-1-AP

Size:
150ul , Concentration: 700 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG6229

GenBank Accession Number:
BC065926

GeneID (NCBI):
7905

UNIPROT ID:
Q00765

Full Name:
receptor accessory protein 5

Calculated MW:
21 kDa

Observed MW:
18-21 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:10000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:300-1:1200
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, monkey, xenopus

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, human liver tissue, mouse brain tissue, rat brain tissue, mouse heart tissue, rat heart tissue

IP : HeLa cells,

IHC : human colon cancer tissue,

IF/ICC : A549 cells, HeLa cells

Background Information

REEP5 (receptor expression-enhancing protein 5), also named as C5orf18, DP1 or TB2, is a membrane protein belonging to DP1/Yop1p protein family. All REEP proteins contain a conserved TB2/DP1, HVA22 domain which is involved in intracellular trafficking and secretion (PMID: 19123125). REEP5 is expressed in circumvallate papillae and testis, and may have the function to influence functional cell surface expression of taste receptors (PMID: 16720576). REEP5 can interact with atlastins (ATL1 and ATL2) which are involved in modulating the structure of ER network (PMID: 19665976).

Notable Publications

Author	Pubmed ID	Journal	Application
Andrea Tirincsi	36139500	Cells	WB
Benoît Renvoisé	27638887	Hum Mol Genet	WB
M. Elena Garcia-Pardo	34496765	BMC Bioinformatics	IF

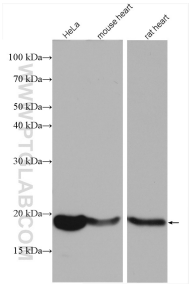
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

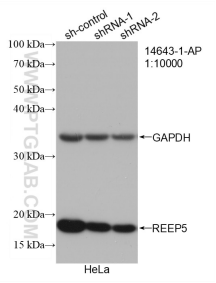
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

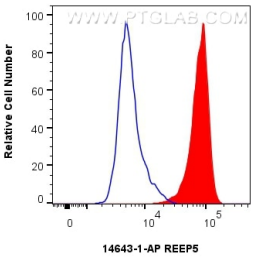
Selected Validation Data



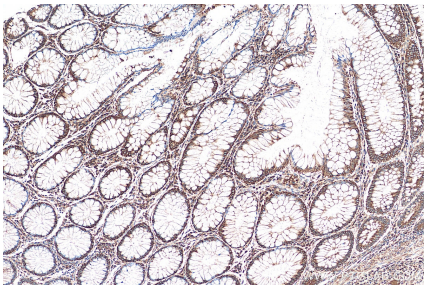
Various lysates were subjected to SDS PAGE followed by western blot with 14643-1-AP (REEP5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



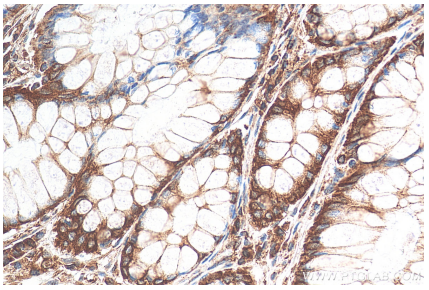
WB result of REEP5 antibody (14643-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-REEP5 transfected HeLa cells.



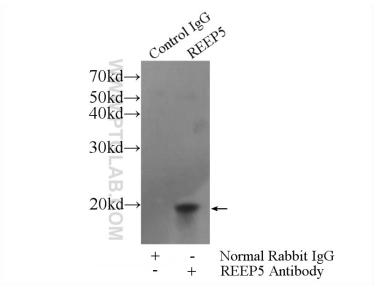
1x10^6 HeLa cells were intracellularly stained with 0.25 ug REEP5 Polyclonal antibody (14643-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



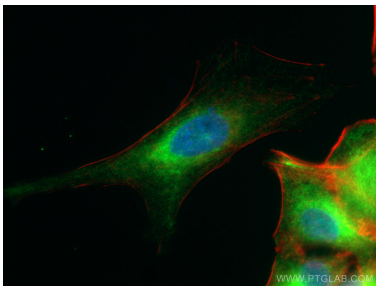
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14643-1-AP (REEP5 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 14643-1-AP (REEP5 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-REEP5 (IP:14643-1-AP, 3ug; Detection:14643-1-AP 1:1000) with HeLa cells lysate 2400ug.



Immunofluorescent analysis of (4% PFA) fixed A549 cells using REEP5 antibody (14643-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). F-actin is stained using CL555-phalloidin (red) and DNA is stained by DAPI (blue).