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REEP5 Rabbit pAb

Catalog # AP99768

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q00765
Other Accession	Q00765
Predicted	Rat, Pig, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	21493
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human REEP5
Epitope Specificity	101-189/189
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the DP1 family.
SUBUNIT	Interacts with ATL1 (By similarity). Interacts with ATL2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	REEP5 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.

Additional Information

Gene ID	7905
Other Names	C5orf18; D5S346; DP1; POB16; TB2; YOP1; Yip2e; DP1/TB2; TB2/DP1; REEP5_HUMAN; REEP5; Polyposis locus protein 1; Protein TB2; REEP5_MOUSE; GP106; Polyposis locus protein 1 homolog; Protein TB2 homolog; REEP5_RAT; receptor accessory protein 5; chromosome 5 open reading frame 18; deleted in polyposis 1; polyposis coli region hypothetical protein DP1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	REEP5
Synonyms	C5orf18, DP1, TB2
Function	Plays an essential role in heart function and development by regulating the organization and function of the sarcoplasmic reticulum in cardiomyocytes.
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein. Sarcoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q60870}; Multi-pass membrane protein. Note=Localizes to endoplasmic reticulum tubular network (PubMed:23969831). In cardiomyocytes, localizes to the junctional sarcoplasmic reticulum membrane which is closely tethered to the cell membrane and contractile machinery (By similarity) {ECO:0000250|UniProtKB:Q60870, ECO:0000269|PubMed:23969831}
Tissue Location	Expressed in heart (at protein level) (PubMed:32075961). Expressed in circumvallate papillae and testis (PubMed:16720576).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.