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REEP3 Antibody

Catalog # ASC11051

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q6NUK4
Other Accession	NP_001001330, 47679089
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	29264
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	REEP3 antibody can be used for detection of REEP3 by Western blot at 1 g/mL. Antibody can also be used for immunohistochemistry starting at 5 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	221035
Other Names	Receptor expression-enhancing protein 3, REEP3, C10orf74
Target/Specificity	REEP3;
Reconstitution & Storage	REEP3 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	REEP3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	REEP3
Synonyms	C10orf74
Function	Microtubule-binding protein required to ensure proper cell division and nuclear envelope reassembly by sequestering the endoplasmic reticulum away from chromosomes during mitosis. Probably acts by clearing the endoplasmic reticulum membrane from metaphase chromosomes.
Cellular Location	Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Expressed in circumvallate papillae.

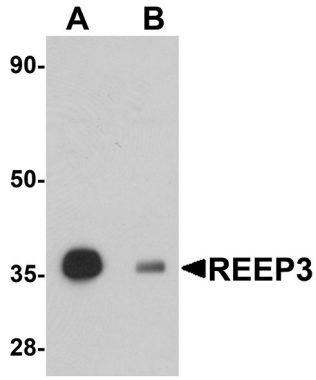
Background

REEP3 Antibody: Mammalian odorant receptors require accessory proteins such as RTP1 and RTP2 for functional cell surface expression. Receptor expression-enhancing protein (REEP) family members are transmembrane proteins which interact with odorant receptor proteins and may enhance the odorant receptor responses to odorants. Recently studies have shown other chemosensory receptors such as bitter taste receptors are also influenced by RTP and REEP family members. REEP3 has also been suggested as a novel candidate gene for autism and as a loci influencing the plasma levels of the liver enzyme alkaline phosphatase.

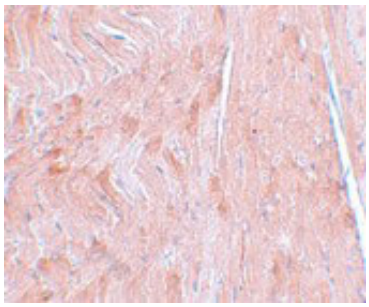
References

Saito H, Kubota M, Roberts RW, et al. RTP family members induce functional expression of mammalian odorant receptors. Cell2004; 119:679-91.
Behrens M, Bartelt J, Reichling et al. Members of RTP and REEP gene families influence functional bitter taste receptor expression. J. Biol. Chem.2006; 281:20650-9.
Castermans D, Vermeesch JR, Fryns J-P, et al. Identification and characterization of the TRIP8 and REEP3 genes on chromosome 10q21.3 as novel candidate genes for autism. Euro. J. Hum. Genet.2007; 15:422-31.
Yuan X, Waterworth D, Perry JR, et al. Population-based genome-wide association studies reveal six loci influencing plasma levels of liver enzymes. Am. J. Hum. Genet.2008; 83:520-8.

Images

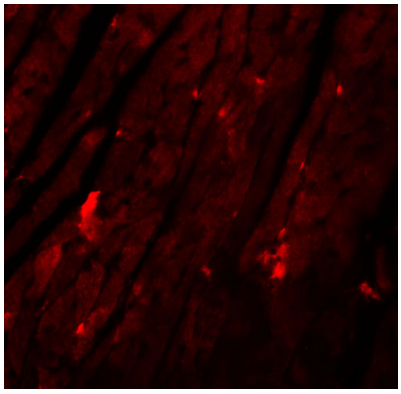


Western blot analysis of REEP3 in rat heart tissue lysate with REEP3 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of REEP3 in mouse heart tissue with REEP3 antibody at 5 µg/mL.

Immunofluorescence of REEP3 in mouse heart tissue with REEP3 antibody at 20 µg/mL.



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