Ras-Related Protein Rab-13 (RAB13) ELISA Kit for Porcine

PRODUCT OVERVIEW

Product Name	Ras-Related Protein Rab-13 (RAB13), ELISA Kit
Full Product Name	Porcine Ras-Related Protein Rab-13 (RAB13) ELISA Kit
Product Gene Name	RAB13 elisa kit
Species Reactivity	Porcine
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	22,774 Da
OMIM	X75593 mRNA
3D Structure	ModBase 3D Structure for P51153
Related Product Information for RAB13 elisa kit	MBS9395889 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Ras-Related Protein Rab-13 (RAB13) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing RAB13. The ELISA analytical biochemical technique of the MBS9395889 kit is based on RAB13 antibody-RAB13 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect RAB13 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, RAB13. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of RAB13 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAB13. It may not necessarily be applicable to this product.

NCBI GI #	4506363
NCBI GeneID	5872
NCBI Accession #	NP_002861.1
UniProt Primary Accession #	P51153
UniProt Secondary Accession #	Q5U0A6; Q6GPG6; Q96GU4; A8K6B5; D3DV67
UniProt Related Accession #	P51153
GenBank Nucleotide #	NM_002870.3
NCBI Official Full Name	ras-related protein Rab-13 isoform 1
NCBI Official Synonym Full Names	RAB13, member RAS oncogene family
NCBI Official Symbol	RAB13
NCBI Official Synonym Symbols	GIG4
UniProt Protein Name	Ras-related protein Rab-13
UniProt Synonym Protein Names	Cell growth-inhibiting gene 4 protein
Protein Family	Ras-related protein

UniProt Gene Name	RAB13
NCBI Protein Information	ras-related protein Rab-13
NCBI Summary for RAB13	This gene is a member of the Rab family of small G proteins and plays a role in regulating membrane trafficking between trans-Golgi network (TGN) and recycling endosomes (RE). The encoded protein is involved in the assembly of tight junctions, which are components of the apical junctional complex (AJC) of epithelial cells. The AJC plays a role in forming a barrier between luminal contents and the underlying tissue. Additional functions associated with the protein include endocytic recycling of occludin, regulation of epithelial cell scattering, neuronal regeneration and regulation of neurite outgrowth. Alternately spliced transcript variants have been observed for this gene. A pseudogene associated with this gene is located on chromosome 12. [provided by RefSeq, Jan 2013]
UniProt Comments for RAB13	RAB13: Could participate in polarized transport, in the assembly and/or the activity of tight junctions. Belongs to the small GTPase superfamily. Rab family. Protein type: G protein; G protein, monomeric; G protein, monomeric, Rab Chromosomal Location of Human Ortholog: 1q21.3 Cellular Component: cytoplasm; cytoplasmic vesicle; cytoplasmic vesicle membrane; endocytic vesicle; Golgi apparatus; lamellipodium; lateral plasma membrane; neuron projection; plasma membrane; recycling endosome; tight junction; trans-Golgi network Molecular Function: GTP binding; GTPase activity; protein binding Biological Process: cellular response to insulin stimulus; cortical actin cytoskeleton organization and biogenesis; endocytic recycling; endosome transport; neurite development; protein secretion; vesicle docking during exocytosis
Research Articles on RAB13	**1.** Inactive Rab13 appears to associate with vesicles via protein-protein interactions. Only following activation does Rab13 associate with the plasma membrane, presumably with insertion of the C-terminal prenyl group into the membrane.
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