Ras-Related Protein Rap-1a (RAP1A) ELISA Kit for Duck

PRODUCT OVERVIEW

Product Name	Ras-Related Protein Rap-1A (RAP1A), ELISA Kit
Full Product Name	Duck Ras-Related Protein Rap-1A (RAP1A) ELISA Kit
Product Gene Name	RAP1A elisa kit
Species Reactivity	Duck
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	20,987 Da
OMIM	179520
Related Product Information for RAP1A elisa kit	MBS9357595 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Ras-Related Protein Rap-1A (RAP1A) 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 RAP1A. The ELISA analytical biochemical technique of the MBS9357595 kit is based on RAP1A antibody-RAP1A antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect RAP1A antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, RAP1A. 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 RAP1A 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 RAP1A. It may not necessarily be applicable to this product.

NCBI GI #	4506413
NCBI GeneID	5906
NCBI Accession #	NP_002875.1
UniProt Secondary Accession #	P10113
UniProt Related Accession #	P62834
GenBank Nucleotide #	NM_002884.3
NCBI Official Full Name	ras-related protein Rap-1A
NCBI Official Synonym Full Names	RAP1A, member of RAS oncogene family
NCBI Official Symbol	RAP1A
NCBI Official Synonym Symbols	RAP1; C21KG; G-22K; KREV1; KREV-1; SMGP21
UniProt Protein Name	Ras-related protein Rap-1A
UniProt Synonym Protein Names	C21KG; G-22K; GTP-binding protein smg p21A; Ras-related protein Krev-1
Protein Family	Ras-related protein
UniProt Gene Name	RAP1A
UniProt Synonym Gene Names	KREV1

UniProt Entry Name	RAP1A_HUMAN
NCBI Protein Information	ras-related protein Rap-1A
NCBI Summary for RAP1A	This gene encodes a member of the Ras family of small GTPases. The encoded protein undergoes a change in conformational state and activity, depending on whether it is bound to GTP or GDP. This protein is activated by several types of guanine nucleotide exchange factors (GEFs), and inactivated by two groups of GTPase-activating proteins (GAPs). The activation status of the encoded protein is therefore affected by the balance of intracellular levels of GEFs and GAPs. The encoded protein regulates signaling pathways that affect cell proliferation and adhesion, and may play a role in tumor malignancy. Pseudogenes of this gene have been defined on chromosomes 14 and 17. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]
UniProt Comments for RAP1A	RAP1A: a small G protein of the Ras family with tumor suppressor activity. Induces morphological reversion of a cell line transformed by a Ras oncogene. Activated by guanine nucleotide-exchange factors (GEF) EPAC and EPAC2 in a cAMP-dependent manner, and GFR. Counteracts the mitogenic function of Ras, at least partly because it can interact with Ras GAPs and RAF in a competitive manner. Interacts with SGSM1, SGSM2 and SGSM3. Protein type: G protein, monomeric; Motility/polarity/chemotaxis; G protein, monomeric, Ras; Tumor suppressor; G protein Chromosomal Location of Human Ortholog: 1p13.3 Cellular Component: cell junction; cytoplasm; cytosol; early endosome; late endosome; myelin sheath; neuron projection; perinuclear region of cytoplasm; plasma membrane Molecular Function: GTP binding; GTPase activity; protein binding; protein complex binding; protein transporter activity; Rap guanyl-nucleotide exchange factor activity; Ras GTPase binding Biological Process: activation of MAPKK activity; blood coagulation; energy reserve metabolic process; microvillus biogenesis; negative regulation of collagen biosynthetic process; nerve growth factor receptor signaling pathway; platelet activation; positive regulation of glucose import; positive regulation of GTPase activity; positive regulation of phagocytosis; positive regulation of protein kinase activity; protein transport; Rap protein signal transduction; regulation of insulin secretion; signal transduction
Research Articles on RAP1A	**1.** These findings provide further evidence that a crucial role for miR-203 in inhibiting metastasis of PCa through the suppression of Rap1A expression.
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