Dexamethasone-Induced Ras-Related Protein 1 (RASD1) ELISA Kit for Human

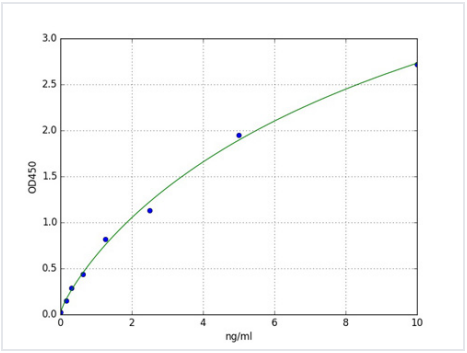
PRODUCT OVERVIEW

Product Name	Dexamethasone-induced Ras-related protein 1 (RASD1), ELISA Kit
Full Product Name	Human Dexamethasone-induced Ras-related protein 1 ELISA Kit
Product Gene Name	RASD1 elisa kit
Product Synonym Names	RASD1/Dexamethasone-induced Ras-related protein 1/Activator of G-protein signaling 1
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	31,684 Da
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for RASD1 elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Human RASD1 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human RASD1 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRPStreptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Human RASD1 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Human RASD1 can be calculated.
Other Notes	Small volumes of RASD1 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.
Searchable Terms for RASD1 purchase	MBS764251 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Dexamethasone-induced Ras-related protein 1 (RASD1) 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 RASD1. The ELISA analytical biochemical technique of the MBS764251 kit is based on RASD1 antibody-RASD1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect RASD1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, RASD1. 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(%).

Results of a typical standard run of a Human RASD1 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.156	0.313	0.625	1.25	2.5	5	10
Y	OD450	0.025	0.063	0.097	0.165	0.302	0.727	1.315	2.170

Typical Testing Data of RASD1 elisa kit



Typical Standard Curve of RASD1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RASD1. It may not necessarily be applicable to this product.

NCBI GI #	6677673
NCBI GeneID	19416
NCBI Accession #	NP_033052.1
UniProt Related Accession #	O35626
GenBank Nucleotide #	NM_009026.5
NCBI Official Full Name	dexamethasone-induced Ras-related protein 1
NCBI Official Synonym Full Names	RAS, dexamethasone-induced 1
NCBI Official Symbol	Rasd1
NCBI Official Synonym Symbols	Dexras1
UniProt Protein Name	Dexamethasone-induced Ras-related protein 1
Protein Family	Dexamethasone-induced Ras-related protein
UniProt Gene Name	Rasd1
UniProt Synonym Gene Names	Dexras1
UniProt Entry Name	RASD1_MOUSE
NCBI Protein Information	dexamethasone-induced Ras-related protein 1
NCBI Summary for RASD1	This gene encodes a member of the Ras superfamily of small GTPases and is induced by dexamethasone. The encoded protein is an activator of G-protein signaling and acts as a direct nucleotide exchange factor for Gi-Go proteins. This gene may play a role in dexamethasone-induced alterations in cell morphology, growth and cell-extracellular matrix interactions. [provided by RefSeq, Nov 2015]

UniProt Comments for RASD1	RASD1: Small GTPase. Negatively regulates the transcription regulation activity of the APBB1/FE65-APP complex via its interaction with APBB1/FE65. Forms a ternary complex with CAPON and NOS1. Component of a complex, at least composed of APBB1, RASD1/DEXRAS1 and APP. Interacts with APBB1/FE65. By dexamethasone. Expressed in a variety of tissues including heart, cardiovascular tissues, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, gastrointestinal and reproductive tissues. Belongs to the small GTPase superfamily. RasD family. Protein type: G protein; G protein, monomeric, RasD; G protein, monomeric Cellular Component: cytoplasm; membrane; nucleus; perinuclear region of cytoplasm; plasma membrane; sarcoplasmic reticulum Molecular Function: GTP binding; nucleotide binding; protein binding Biological Process: negative regulation of transcription, DNA-dependent; nitric oxide mediated signal transduction; signal transduction; small GTPase mediated signal transduction
Research Articles on RASD1	**1.** Dexras1 mediates adipogenesis and diet-induced obesity.
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