RASD2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Rhes (RASD2), Polyclonal Antibody
Full Product Name	Rhes, CT (RASD2, GTP-binding Protein Rhes, Ras Homolog Enriched in Striatum, Tumor Endothelial Marker 2, TEM2)
Product Gene Name	anti-RASD2 antibody
Product Synonym Names	Anti -Rhes, CT (RASD2, GTP-binding Protein Rhes, Ras Homolog Enriched in Striatum, Tumor Endothelial Marker 2, TEM2)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in 0.1M Tris-glycine, pH 7.4, 150mM sodium chloride, 0.05% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes human Rhes. Species Crossreactivity
Preparation and Storage	-20 degree C
Molecular Weight	30,366 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (35936556..35950048). Location: 22q13.1
OMIM	612842
3D Structure	ModBase 3D Structure for Q96D21
Immunogen	Synthetic linear peptide corresponding to C-terminal of human Rhes (KLH).
Positive Control	Human pancreas tissue lysate Storage and Stability: May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Product Categories/Family for anti-RASD2 antibody	Antibodies; Abs to Cancer Markers
Applications Tested/Suitable for anti-RASD2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-RASD2 antibody	Suitable for use in Western Blot and Immunohistochemistry. Dilution: Western Blot: 1:500 Immunohistochemistry: 1:500

Related Product Information for anti-RASD2 antibody	Ras family proteins are molecular switches, which are mediated by extracellular signals and regulate intracellular signaling pathways, thereby controlling a plethora of biological functions such as cell growth, gene transcription, mRNA stability and translation, cytoskeleton organization, peptide trafficking and secrection. Ras proteins are also involved in synaptic plasticity, learning, and memory in the central nervous system. As a member of the RASD subfamily of the Ras-related GTP-binding protein superfamily, Rhes is predominantly expressed in the striatal region of the brain, where it reported to influence brain development and function. It is thought that the activation and expression of the Rhes gene is mediated by thyroid hormones in the brain. In humans, a lack of such hormones is known to cause cretinism. Additionally, Rhes -/- knockout mice display marked behavioral abnormalities, a gender-dependent increase in anxiety levels, and a clear deficit in motor coordination.
Other Notes	Small volumes of anti-RASD2 antibody 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 RASD2 purchase	MBS6002280 is an antibody targeting RASD2. Also known as Rhes, CT (RASD2, GTP-binding Protein Rhes, Ras Homolog Enriched in Striatum, Tumor Endothelial Marker 2, TEM2). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RASD2. It may not necessarily be applicable to this product.

NCBI GI #	15426591
NCBI GeneID	23551
NCBI Accession #	AAH13419.1
UniProt Primary Accession #	Q96D21
UniProt Secondary Accession #	O95520; Q5THY8
UniProt Related Accession #	Q96D21
NCBI Official Full Name	RASD family, member 2
NCBI Official Synonym Full Names	RASD family, member 2
NCBI Official Symbol	RASD2
NCBI Official Synonym Symbols	Rhes; TEM2; MGC:4834
UniProt Protein Name	GTP-binding protein Rhes
UniProt Synonym Protein Names	Ras homolog enriched in striatum; Tumor endothelial marker 2
Protein Family	GTP-binding protein
UniProt Gene Name	RASD2
UniProt Synonym Gene Names	TEM2
UniProt Entry Name	RHES_HUMAN
NCBI Protein Information	GTP-binding protein Rhes; tumor endothelial marker 2; Ras homolog enriched in striatum
NCBI Summary for RASD2	This gene encodes a Ras-related protein that enriched in striatum. The product of this gene binds to GTP and possesses intrinsic GTPase activity. The gene belongs to the Ras superfamily of small GTPases. The exact function of this gene is unknown, but most striatum-specific mRNAs characterized to date encode components of signal transduction cascades. [provided by RefSeq, Jul 2008]

UniProt Comments for RASD2	RASD2: GTPase signaling protein that binds to and hydrolyzes GTP. Regulates signaling pathways involving G-proteins-coupled receptor and heterotrimeric proteins such as GNB1, GNB2 and GNB3. May be involved in selected striatal competencies, mainly locomotor activity and motor coordination. Belongs to the small GTPase superfamily. RasD family. Protein type: G protein, monomeric; G protein; G protein, monomeric, RasD Chromosomal Location of Human Ortholog: 22q13.1 Cellular Component: plasma membrane Molecular Function: GTPase activity; GTP binding; ubiquitin conjugating enzyme binding; G-protein beta-subunit binding Biological Process: positive regulation of protein sumoylation; positive regulation of protein kinase B signaling cascade; synaptic transmission, dopaminergic; metabolic process; small GTPase mediated signal transduction; negative regulation of protein ubiquitination; locomotory behavior
Research Articles on RASD2	**1.** Binding to the Gbeta subunits involves the cationic regions of AGS1 and Rhes, and Data used Rhes-AGS1 chimeras to show that their different cationic regions determine the Gbeta-specificity of the interactions.
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