

Rabbit RASD2 Polyclonal Antibody | anti-RASD2 antibody

RASD2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA75774	Rabbit	Human, Monkey, Mouse, Rat	Western Blot, Immunoprecipitation, ELISA, Dot Blot

PRODUCT SYNONYMS

RASD2; Polyclonal Antibody; RASD2 Antibody; GTP binding protein Rhes antibody; MGC:4834 antibody; OTTHUMP00000197925 antibody; Ras homolog enriched in striatum antibody; RASD2 antibody; Rhes antibody; TEM2 antibody; Tumor endothelial marker 2 antibody; anti-RASD2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Form/Format	Affinity Purified Immunoglobulins
Concentration	0.75 mg/ml IgG in antibody stabilization buffer (varies by lot)
Applicable Applications for anti-RASD2 antibody	WB (Western Blot), IP (Immunoprecipitation), ELISA, DB (Dot Blot)
Immunogen	Synthetic peptide taken within amino acid region 250-325 on Rhes protein.
Preparation and Storage	Store at -20°C for long term storage.

ADDITIONAL INFORMATION

Related Product Information for anti-RASD2 antibody	Description: Ras homolog enriched in striatum Antibody Affinity Purified Overview: Ras homolog enriched in striatum (RHES), belongs to the RASD subfamily of the Ras-related GTP-binding protein superfamily. By responding to extracellular signals, these proteins regulate intracellular signaling pathways, thereby controlling essential cellular functions such as cell growth, gene transcription, cytoskeleton organization and pathways involved in synaptic plasticity, learning and memory (1). RHES, located on mouse chromosome 8, is a product of thyroid hormone-regulated gene during brain development and it regulates signal transduction from G protein-coupled receptors (2). It is implicated in cAMP/PKA signaling pathway- Rhes has been shown to inhibit the cAMP/PKA pathway by thyroid-stimulating hormone (3). Furthermore, RHES modulates dopamine signaling in the striatum- It is essential for correct dopamine-mediated GTP binding (4). Studies investigating the role of RHES have shown that mice that are deficient in this protein were smaller than the wild type mice (1). These mice also showed behavioral abnormalities such as gender-dependent increase in anxiety levels and lack of clear motor coordination. Such studies also showed that absence of RHES modulated cAMP/PKA signaling in projection neurons by increasing golf protein levels (2). RHES is expressed in brain areas that receive dopaminergic input, such as striatum. Therefore, its mRNA expression is controlled by dopamine and its expression is reduced under conditions of dopamine supersensitivity (5). RHES has also been shown to bind Huntingtin and mutant Huntingtin protein (6). Expansion of Huntingtin is usually seen in patients with Huntington's disease. The Rhes antibodies were generated using peptide corresponding to mouse Rhes protein. Rhes antibodies are affinity purified over immobilized antigen based affinity chromatography, and the purified immunoglobulins are stabilized in antibody stabilization buffer. RHES antibodies will label bands at 48 and 30 kDa which are absent in knockout mice. RHES positive control (PC-RHES) is available in ready-to-use SDS sample buffer. Synthetic peptide (P-RHES) for immunocompetition/immunodepletion assays are also available.
Product Categories/Family for anti-RASD2 antibody	Primary Antibodies; Neuroscience; Cell markers & CAMs; RASD2 Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	22477556
NCBI GeneID	75141
UniProt Accession #	Q8JZW1; P63032
NCBI Official Full Name	Rasd2 protein, partial
NCBI Official Synonym Full Names	RASD family, member 2
NCBI Official Symbol	Rasd2
NCBI Official Synonym Symbols	Rhes; TEM2; TEM-2; AU045414; 4930526B11Rik
NCBI Protein Information	GTP-binding protein Rhes
UniProt Protein Name	Rasd2 protein
UniProt Gene Name	Rasd2
UniProt Entry Name	Q8JZW1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/rasd2-antibody-western-blot-immunoprecipitation-dot-blot-elisa/75774>