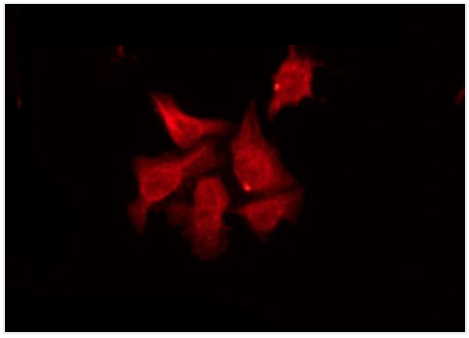
# RASD2 Antibody – Rabbit Polyclonal

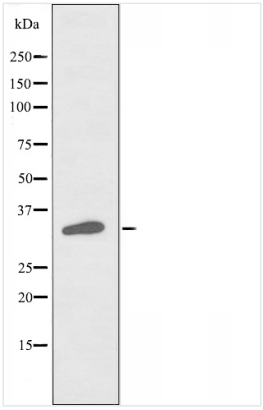
## PRODUCT OVERVIEW

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|---|---|
| **Product Name** | RASD2, Polyclonal Antibody |
| **Full Product Name** | RASD2 Antibody |
| **Product Gene Name** | anti-RASD2 antibody |
| **Product Synonym Names** | GTP binding protein Rhes; GTP-binding protein Rhes; MGC:4834; OTTHUMP00000197925; Ras homolog enriched in striatum; RASD 2; RASD family member 2; RASD2; Rhes; RHES_HUMAN; TEM 2; TEM2; Tumor endothelial marker 2 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| **Concentration** | 1mg/ml (lot specific) |
| **Specificity** | RASD2 antibody detects endogenous levels of total RASD2 |
| **Preparation and Storage** | Store at -20 degree C. Stable for 12 months from date of receipt. |
| **Antibody/Peptide Pairs** | RASD2 peptide (MBS9623574) is used for blocking the activity of RASD2 antibody (MBS9604857) |
| **Molecular Weight** | Observed: 35 kD<br>Predicted: 31 kDa |
| **3D Structure** | ModBase 3D Structure for Q96D21 |
| **Supply Chain Verification** | Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire. |
| **Immunogen** | A synthesized peptide |
| **Subcellular Location** | Cell Membrane |
| **Tissue Specificity** | Pancreatic endocrine cells (islets of Langerhans). |
| **Predicted Cross Reactivity** | **Pig, Bovine, Horse, Sheep, Rabbit, Dog** |
| **Similarity** | Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (88%) |
| **Conjugation** | Unconjugated |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-RASD2 antibody** | Western Blot (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), ELISA (EIA) |
| **Application Notes for anti-RASD2 antibody** | WB: 1:500-1:1000<br>IF/ICC: 1:100-1:500 |

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| **Related Product Information for anti-RASD2 antibody** | Function: 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.<br>Subunit Structure: Monomer (Potential). Interacts with PIK3CA and UBE2I (By similarity). Interacts with GNB1, GNB2 and GNB3. Interacts with HTT; interacts with mutant HTT (mHTT) with a much higher affinity than wild type HTT.<br>Post-translational Modifications: Farnesylated. Farnesylation is required for membrane targeting (By similarity).<br>Similarity: Belongs to the small GTPase superfamily. RasD family. |
| **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** | MBS9604857 is an antibody targeting RASD2. Also known as RASD2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |



**Immunofluorescence (IF) of anti-RASD2 antibody**
MBS9604857 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.




**Western Blot (WB) of anti-RASD2 antibody**
Western blot analysis of extracts from Jurkat cells, using RASD2 antibody.

## ADDITIONAL DETAILS

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

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|---|---|
| **NCBI GI #** | 22027486 |
| **NCBI GeneID** | 23551 |
| **NCBI Accession #** | NP_055125.2 |
| **UniProt Primary Accession #** | Q96D21 |
| **UniProt Secondary Accession #** | O95520; Q5THY8 |
| **UniProt Related Accession #** | Q96D21 |
| **GenBank Nucleotide #** | NM_014310.4 |
| **NCBI Official Full Name** | GTP-binding protein Rhes |
| **NCBI Official Synonym Full Names** | RASD family member 2 |
| **NCBI Official Symbol** | RASD2 |
| **NCBI Official Synonym Symbols** | Rhes; TEM2 |
| **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 |

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|---|---|
| **UniProt Synonym Gene Names** | TEM2 |
| **NCBI Protein Information** | GTP-binding protein Rhes |
| **NCBI Summary for RASD2** | This gene belongs to the Ras superfamily of small GTPases and is enriched in the striatum. The encoded protein functions as an E3 ligase for attachment of small ubiquitin-like modifier (SUMO). This protein also binds to mutant huntingtin (mHtt), the protein mutated in Huntington disease (HD). Sumoylation of mHTT by this protein may cause degeneration of the striatum. The protein functions as an activator of mechanistic target of rapamycin 1 (mTOR1), which in turn plays a role in myelination, axon growth and regeneration. Reduced levels of mRNA expressed by this gene were found in HD patients. [provided by RefSeq, Jan 2016] |
| **UniProt Comments for 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. |
| **Research Articles on RASD2** | **1.** Study demonstrated that variation in the gene coding for RASD2 (rs6518956) affects in vivo prefrontal and striatal phenotypes in healthy human subjects that are relevant to schizophrenia |
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