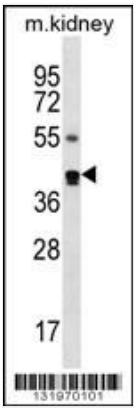
# PSCD2 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | PSCD2, Polyclonal Antibody |
| **Full Product Name** | PSCD2, NT (CYTH2, ARNO, PSCD2, PSCD2L, Cytohesin-2, ARF exchange factor, ARF nucleotide-binding site opener, PH, SEC7 and coiled-coil domain-containing protein 2) (Azide free) (HRP) |
| **Product Gene Name** | anti-PSCD2 antibody |
| **Product Synonym Gene Name** | CYTH2 |
| **Product Synonym Names** | CYTH2; ARNO; PSCD2; PSCD2L; Cytohesin-2; ARF exchange factor; ARF nucleotide-binding site opener; PH; SEC7 and coiled-coil domain-containing protein 2 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Mouse |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 46,489 Da |
| **OMIM** | 602488 |
| **3D Structure** | ModBase 3D Structure for Q99418 |
| **Immunogen** | PSCD2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 35-64 amino acids from the N-terminal region of human PSCD2. |
| **Conjugate** | HRP |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-PSCD2 antibody** | Antibodies; Binding Proteins |
| **Applications Tested/Suitable for anti-PSCD2 antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-PSCD2 antibody** | WB: 1:100-500<br>ELISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-PSCD2 antibody** | The protein encoded by this gene is a member of the PSCD family. Members of this family have identical structural organization that consists of an N-terminal coiled-coil motif, a central Sec7 domain, and a C-terminal pleckstrin homology (PH) domain. The coiled-coil motif is involved in homodimerization, the Sec7 domain contains guanine-nucleotide exchange protein (GEP) activity, and the PH domain interacts with phospholipids and is responsible for association of PSCDs with membranes. Members of this family appear to mediate the regulation of protein sorting and membrane trafficking. The encoded protein exhibits GEP activity in vitro with ARF1, ARF3, and ARF6 and is 83% homologous to CYTH1. Two transcript variants encoding different isoforms have been found for this gene. |

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| **Product References and Citations for anti-PSCD2 antibody** | Merkulova, M., et al. Biochim. Biophys. Acta 1797(8):1398-1409(2010). Torii, T., et al. J. Biol. Chem. 285(31):24270-24281(2010). White, D.T., et al. Mol. Biol. Cell 21(4):562-571(2010). Bouschet, T., et al. J. Cell. Sci. 120 (PT 15), 2489-2497 (2007): Wu, C., et al. Proteomics 7(11):1775-1785(2007). |
| **Other Notes** | Small volumes of anti-PSCD2 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 PSCD2 purchase** | MBS6338044 is an antibody targeting PSCD2. Also known as PSCD2, NT (CYTH2, ARNO, PSCD2, PSCD2L, Cytohesin-2, ARF exchange factor, ARF nucleotide-binding site opener, PH, SEC7 and coiled-coil domain-containing protein 2) (Azide free) (HRP). Reactive in Mouse. Host: Rabbit. |




**Western Blot (WB) of anti-PSCD2 antibody**
PSCD2 Antibody (N-term) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the PSCD2 antibody detected the PSCD2 protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSCD2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 195972859 |
| **NCBI GeneID** | 9266 |
| **NCBI Accession #** | NP_004219.3 |
| **UniProt Primary Accession #** | Q99418 |
| **UniProt Secondary Accession #** | Q8IXY9; Q92958; A8K8P0 |
| **UniProt Related Accession #** | Q99418 |
| **GenBank Nucleotide #** | NM_004228.6 |
| **NCBI Official Full Name** | cytohesin-2 isoform 2 |
| **NCBI Official Synonym Full Names** | cytohesin 2 |
| **NCBI Official Symbol** | CYTH2 |
| **NCBI Official Synonym Symbols** | ARNO; CTS18; PSCD2; SEC7L; PSCD2L; CTS18.1; Sec7p-L; Sec7p-like |
| **UniProt Protein Name** | Cytohesin-2 |
| **UniProt Synonym Protein Names** | ARF exchange factor; ARF nucleotide-binding site opener; Protein ARNO; PH, SEC7 and coiled-coil domain-containing protein 2 |
| **UniProt Gene Name** | CYTH2 |
| **UniProt Synonym Gene Names** | ARNO; PSCD2; PSCD2L; Protein ARNO |
| **UniProt Entry Name** | CYH2_HUMAN |

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| **NCBI Protein Information** | cytohesin-2; ARF exchange factor; ARF nucleotide-binding site opener; CTC-273B12.8; PH, SEC7 and coiled-coil domain-containing protein 2; pleckstrin homology, Sec7 and coiled-coil domains 2 (cytohesin-2); pleckstrin homology, Sec7 and coiled/coil domains |
| **UniProt Comments for PSCD2** | cytohesin 2: Acts as a guanine-nucleotide exchange factor (GEF). Promotes guanine-nucleotide exchange on ARF1, ARF3 and ARF6. Promotes the activation of ARF factors through replacement of GDP with GTP. The cell membrane form, in association with ARL4 proteins, recruits ARF6 to the plasma membrane. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: GEFs; GEFs, ARF<br><br>Chromosomal Location of Human Ortholog: 19q13.33<br><br>Cellular Component: membrane; cytoplasm; plasma membrane; trans-Golgi network<br><br>Molecular Function: protein binding; lipid binding; ARF guanyl-nucleotide exchange factor activity<br><br>Biological Process: regulation of cell adhesion; vesicle-mediated transport; endocytosis; regulation of ARF protein signal transduction; actin cytoskeleton organization and biogenesis; positive regulation of GTPase activity |
| **Research Articles on PSCD2** | **1.** Cytohesin-2 constitutively suppresses platelet dense granule secretion and aggregation by keeping ARF6 in a GTP-bound state |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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