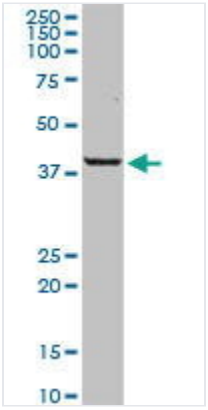
# PARD6A Antibody – Rabbit Polyclonal

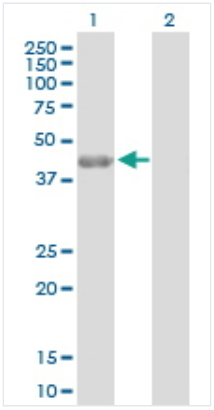
## PRODUCT OVERVIEW

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| **Product Name** | PARD6A, Polyclonal Antibody |
| **Full Product Name** | PARD6A (Partitioning Defective 6 Homolog alpha, PAR-6, PAR-6 alpha, PAR-6A, PAR6C, Tax Interaction Protein 40, TIP-40, PAR6A, TAX40) (PE) |
| **Product Gene Name** | anti-PARD6A antibody |
| **Immunogen Sequence** | MARPQRTPAR SPDSIVEVKS KFDAEFRRFA LPRASVSGFQ EFSRLLRAVH QIPGLDVLLG YTDAHGDLLP LTNDDSLHRA LASGPPPLRL LVQKREADSS GLAFASNSLQ RRKKGLLLRP VAPLRTRPPL LISLPQDFRQ VSSVIDVDLL PETHRRVRLH KHGSDRPLGF YIRDGMSVRV APQGLERVPG IFISRLVRGG LAESTGLLAV SDEILEVNGI EVAGKTLDQV TDMMVANSHN LIVTVKPANQ RNNVVRGASG RLTGPPSAGP GPAEPDSDDD SSDLVIENRQ PPSSNGLSQG PPCWDLHPGC RHPGTRSSLP SLDDQEQASS GWGSRIRGDG SGFSL |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Concentration** | 0.9mg/mL (lot specific) |
| **Specificity** | Recognizes human PARD6A. Species Crossreactivity: mouse. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Chromosome Location** | Chromosome: 16; NC_000016.9 (67694851..67696681). Location: 16q22.1 |
| **OMIM** | 607484 |
| **3D Structure** | ModBase 3D Structure for Q9NPB6 |
| **Immunogen** | Full length recombinant protein corresponding to aa1-345 from human PARD6A. |
| **Type** | Pab |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-PARD6A antibody** | Antibodies; Cell Division Cycle (CDC) |
| **Applications Tested/Suitable for anti-PARD6A antibody** | Western Blot (WB) |
| **Application Notes for anti-PARD6A antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-PARD6A antibody** | PAR6 is a cell membrane protein involved in cell polarization and asymmetrical cell division processes as part of a multi protein complex. It is thought to be involved in the invasive phenotype that is associated with metastatic carcinomas, playing a role in the epithelial to mesenchymal transition (EMT). PAR6 is also thought to be involved in the formation of epithelial tight junctions. PAR6 contains a semi Cdc42/Rac interactive binding (CRIB) domain and a PDZ (PSD95/Discs-large/ZO1) domain, and several different PAR6 isoforms have been identified. |

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| **Other Notes** | Small volumes of anti-PARD6A 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 PARD6A purchase** | MBS6388436 is an antibody targeting PARD6A. Also known as PARD6A (Partitioning Defective 6 Homolog alpha, PAR-6, PAR-6 alpha, PAR-6A, PAR6C, Tax Interaction Protein 40, TIP-40, PAR6A, TAX40) (PE). Host: Rabbit. |




**Western Blot (WB) of anti-PARD6A antibody**
PARD6A rabbit polyclonal antibody. Western Blot analysis of PARD6A expression in mouse kidney using MBS6388436.




**Western Blot (WB) of anti-PARD6A antibody**
Western Blot analysis of PARD6A expression in transfected 293T cell line MBS6388436. Lane 1: PARD6A transfected lysate (37.3kD). Lane 2: Non-transfected lysate.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PARD6A. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 82659097 |
| **NCBI GeneID** | 50855 |
| **NCBI Accession #** | NP_001032358.1 |
| **UniProt Primary Accession #** | Q9NPB6 |
| **UniProt Secondary Accession #** | O14911; Q9NPJ7 |
| **UniProt Related Accession #** | Q9NPB6 |
| **GenBank Nucleotide #** | NM_001037281 |
| **NCBI Official Full Name** | partitioning defective 6 homolog alpha isoform 2 |
| **NCBI Official Synonym Full Names** | par-6 family cell polarity regulator alpha |
| **NCBI Official Symbol** | PARD6A |
| **NCBI Official Synonym Symbols** | PAR6; PAR6C; TAX40; PAR-6A; TIP-40; PAR6alpha |
| **UniProt Protein Name** | Partitioning defective 6 homolog alpha |
| **UniProt Synonym Protein Names** | PAR6C; Tax interaction protein 40; TIP-40 |
| **Protein Family** | Partitioning defective |
| **UniProt Gene Name** | PARD6A |
| **UniProt Synonym Gene Names** | PAR6A; PAR-6; PAR-6 alpha; PAR-6A; TIP-40 |
| **UniProt Entry Name** | PAR6A_HUMAN |
| **NCBI Protein Information** | partitioning defective 6 homolog alpha; PAR-6 alpha; Tax-interacting protein 40; tax interaction protein 40; partitioning-defective protein 6; partitioning defective-6 homolog alpha; par-6 partitioning defective 6 homolog alpha |

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| **UniProt Comments for PARD6A** | PARD6A: Adapter protein involved in asymmetrical cell division and cell polarization processes. Probably involved in the formation of epithelial tight junctions. Association with PARD3 may prevent the interaction of PARD3 with F11R/JAM1, thereby preventing tight junction assembly. The PARD6-PARD3 complex links GTP-bound Rho small GTPases to atypical protein kinase C proteins. Interacts with MAP2K5. Interacts with PARD3. Interacts with GTP-bound forms of CDC42, ARHQ/TC10 and RAC1. Interacts with the N-terminal part of PRKCI and PRKCZ. Part of a complex with PARD3, CDC42 or RAC1 and PRKCI or PRKCZ. Part of a complex with LLGL1 and PRKCI. Interacts with human T-cell leukemia virus type I TAX protein. Interacts with MPP5 and CRB3. Interacts with TGFBR1; involved in TGF-beta induced epithelial to mesenchymal transition. Interacts with ECT2 ('Thr- 359' phosphorylated form) and PRKCI. Expressed in pancreas, skeletal muscle, brain and heart. Weakly expressed in kidney and placenta. Belongs to the PAR6 family. 2 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Adaptor/scaffold; Motility/polarity/chemotaxis; Cell adhesion<br><br>Chromosomal Location of Human Ortholog: 16q22.1<br><br>Cellular Component: ruffle; protein complex; tight junction; apical part of cell; plasma membrane; cell cortex; nucleus; cytosol<br><br>Molecular Function: protein binding; Rho GTPase binding; protein kinase C binding; GTP-dependent protein binding; transcription factor binding<br><br>Biological Process: intercellular junction assembly and maintenance; viral reproduction; cell division; transforming growth factor beta receptor signaling pathway; intercellular junction maintenance; cell cycle |
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