PARD6A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PARD6A, Polyclonal Antibody
Full Product Name	PARD6A Conjugated Antibody
Product Gene Name	anti-PARD6A antibody
Product Synonym Names	PAR6; PAR6C; TAX40; PAR-6A; TIP-40; PAR6alpha
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total PARD6A protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	37,317 Da
OMIM	607484
3D Structure	ModBase 3D Structure for Q9NPB6
Immunogen	Fusion protein corresponding to residues near the C terminal of human par-6 family cell polarity regulator alpha
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-PARD6A antibody	Most Applications
Application Notes for anti-PARD6A antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-PARD6A antibody	This gene is a member of the PAR6 family and encodes a protein with a PSD95/Discs-large/ZO1 (PDZ) domain and a semi-Cdc42/Rac interactive binding (CRIB) domain. This cell membrane protein is involved in asymmetrical cell division and cell polarization processes as a member of a multi-protein complex. The protein also has a role in the epithelial-to-mesenchymal transition (EMT) that characterizes the invasive phenotype associated with metastatic carcinomas. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
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	MBS9446331 is an antibody targeting PARD6A. Also known as PARD6A Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	33988270
NCBI GeneID	50855
NCBI Accession #	BC015626
UniProt Primary Accession #	Q9NPB6
UniProt Secondary Accession #	O14911; Q9NPJ7
UniProt Related Accession #	Q9NPB6
NCBI Official Full Name	Homo sapiens par-6 partitioning defective 6 homolog alpha (C. elegans), mRNA
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
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. Protein type: Adaptor/scaffold; Motility/polarity/chemotaxis; Cell adhesion Chromosomal Location of Human Ortholog: 16q22.1 Cellular Component: ruffle; protein complex; tight junction; apical part of cell; plasma membrane; cell cortex; nucleus; cytosol Molecular Function: protein binding; Rho GTPase binding; protein kinase C binding; GTP-dependent protein binding; transcription factor binding Biological Process: intercellular junction assembly and maintenance; viral reproduction; cell division; transforming growth factor beta receptor signaling pathway; intercellular junction maintenance; cell cycle
Research Articles on PARD6A	**1.** Shp2 promotes metastasis of prostate cancer by attenuating the PAR3/PAR6/aPKC polarity protein complex and enhancing epithelial-to-mesenchymal transition

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