

Rabbit PARD6A Polyclonal Antibody | anti-PARD6A antibody

PARD6A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326896	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

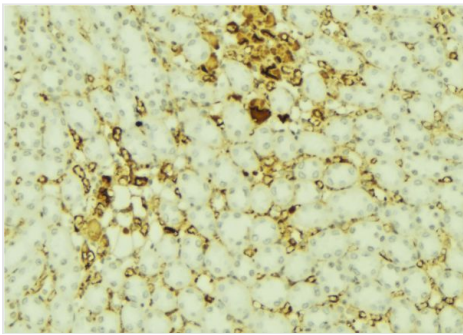
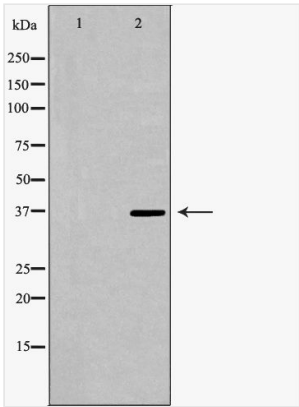
PRODUCT SYNONYMS

PARD6A; Polyclonal Antibody; PARD6A Antibody; 0710008C04Rik; 2610010A15Rik; Par 6 partitioning defective 6 C elegans homolog alpha; Par 6 partitioning defective 6 homolog alpha; Par 6 partitioning defective 6 homolog alpha C elegans; PAR 6A; PAR-6 alpha; PAR-6; par-6 family cell polarity regulator alpha; PAR-6A; PAR6; PAR6A_HUMAN; PAR6alpha; PAR6C; Pard6a; Partitioning defective 6 homolog alpha; partitioning-defective protein 6; C. elegans; homolog of; alpha; Tax interacting protein 40; Tax interaction protein 40; TAX40; TIP 40; TIP-40; TIP40; anti-PARD6A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PARD6A antibody detects endogenous levels of total PARD6A
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	345
Applicable Applications for anti-PARD6A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human PRKC
Subcellular Location	Cytoplasm. Cell Membrane. Cell Projection > Ruffle. Cell Junction > Tight Junction. Colocalizes with GTP-bound CDC42 or RAC1 at membrane ruffles and with PARD3 and PRKCI at epithelial tight junctions.
Tissue Specificity	Expressed in pancreas, skeletal muscle, brain and heart. Weakly expressed in kidney and placenta.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA326896 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of 193T, using PARD6A antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PARD6A antibody

Description: 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.

Function: 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 (PubMed:10873802). Regulates centrosome organization and function. Essential for the centrosomal recruitment of key proteins that control centrosomal microtubule organization (PubMed:20719959).

Subunit Structure: Interacts with MAP2K5 (By similarity). 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 (By similarity). Interacts with human T-cell leukemia virus type I TAX protein. Interacts with MPP5 and CRB3. Interacts with TGFB1; involved in TGF-beta induced epithelial to mesenchymal transition. Interacts with ECT2 ('Thr-359' phosphorylated form) and PRKCI. Interacts with DCTN1 and PCM1 (PubMed:20719959).

Post-translational Modifications: Phosphorylated by the TGF-beta receptor.

Similarity: The pseudo-CRIB domain together with the PDZ domain is required for the interaction with Rho small GTPases. The PB1 domain mediates interactions with MAP2K5. The PDZ domain mediates the interaction with CRB3. Belongs to the PAR6 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	82659097
NCBI GeneID	50855
NCBI Accession #	NP_001032358.1
NCBI GenBank Nucleotide #	NM_001037281.1
UniProt Accession #	Q9NPB6; O14911; Q9NPJ7
Molecular Weight	Observed: 37 kDa Predicted: 38 kDa
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
NCBI Protein Information	partitioning defective 6 homolog alpha
UniProt Protein Name	Partitioning defective 6 homolog alpha
UniProt Gene Name	PARD6A
UniProt Synonym Gene Names	PAR6A; PAR-6; PAR-6 alpha; PAR-6A; TIP-40

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/pard6a-antibody-immunohistochemistry-western-blot-elisa/326896>