

Rabbit PARD3 Polyclonal Antibody | anti-PARD3 antibody

PARD3 Antibody

CATALOG # AAA324062	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunocytochemistry, Immunofluorescence, Western Blot
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PRODUCT SYNONYMS

PARD3; Polyclonal Antibody; PARD3 Antibody; agouti signaling protein; ASIP; Atypical PKC isotype specific interacting protein; Atypical PKC isotype-specific-interacting protein; Baz; bazooka; Coagulation factor II receptor-like 2; CTCL tumor antigen se2-5; F2rl2; PAR-3; par-3 family cell polarity regulator alpha; par-3 family cell polarity regulator; PAR3 alpha; par3; PAR3-alpha; PARD-3; Pard3; PARD3_HUMAN; PARD3A; Partitioning defective 3 homolog; Partitioning-defective 3 homolog; Partitioning-defective protein 3; C. elegans; homolog of; SE2-5L16; SE2-5LT1; SE2-5T2; Thrombin receptor-like 2; anti-PARD3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PARD3 antibody detects endogenous levels of total PARD3
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	1353
Applicable Applications for anti-PARD3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Endomembrane System. Cell Junction. Cell Junction > Tight Junction. Cell Membrane. Cytoplasm > Cell Cortex. Cytoplasm > Cytoskeleton. Localized along the cell-cell contact region. Colocalizes with PARD6A and PRKCI at epithelial tight junctions. Colocalizes with the cortical actin that overlays the meiotic spindle during metaphase I and metaphase II (By similarity). Presence of KRIT1, CDH5 and RAP1B is required for its localization to the cell junction.
Tissue Specificity	Widely expressed.
Predicted Cross Reactivity	Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Bovine (100%), Horse (100%), Sheep (100%), Rabbit (82%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from COLO205 cells, using PARD3 antibody.



WB (Western Blot)

Western blot analysis of extracts from mouse brain, using PARD3 antibody.



IF (Immunofluorescence)

AAA324062 staining COLO205 cells 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) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PARD3 antibody

Function: Adapter protein involved in asymmetrical cell division and cell polarization processes (PubMed:27925688, PubMed:10954424). Seems to play a central role in the formation of epithelial tight junctions (PubMed:27925688). Targets the phosphatase PTEN to cell junctions (By similarity). Involved in Schwann cell peripheral myelination (By similarity). Association with PARD6B may prevent the interaction of PARD3 with F11R/JAM1, thereby preventing tight junction assembly (By similarity). The PARD6-PARD3 complex links GTP-bound Rho small GTPases to atypical protein kinase C proteins (PubMed:10934474). Required for establishment of neuronal polarity and normal axon formation in cultured hippocampal neurons (PubMed:19812038, PubMed:27925688).

Subunit Structure: Interacts (via PDZ 1 domain) with F11R/JAM1, PARD6A and PARD6B. Isoform 2, but not at least isoform 3 interacts with PRKCZ. Interacts with PRCKI and CDH5. Interacts (via PDZ 3 domain) with PTEN (via C-terminus) (By similarity). Part of a complex with PARD6A or PARD6B, PRCKI or PRKCZ and CDC42 or RAC1. Component of a complex whose core is composed of ARHGAP17, AMOT, MPP5/PALS1, PATJ and PARD3/PAR3. Interacts with LIMK2, AURKA and AURKB. Component of the Par polarity complex, composed of at least phosphorylated PRKCZ, PARD3 and TIAM1. Directly interacts with TIAM1 and TIAM2. Interacts with ECT2, FBF1 and SIRT2. Interacts (via coiled-coil domain) with FRMD4A (By similarity). Found in a complex with PARD3, CYTH1 and FRMD4A (By similarity). Interacts with SAPCD2 (PubMed:26766442). Interacts with PRKCA (PubMed:27925688).

Post-translational Modifications: Acetylated. Deacetylated by SIRT2, thereby inhibiting Schwann cell peripheral myelination. Phosphorylation at Ser-827 by PRKCZ and PRCKI occurs at the most apical tip of epithelial cell-cell contacts during the initial phase of tight junction formation and may promote dissociation of the complex with PARD6. EGF-induced Tyr-1127 phosphorylation mediates dissociation from LIMK2 (By similarity). Phosphorylation by AURKA at Ser-962 is required for the normal establishment of neuronal polarity (PubMed:19812038).

Similarity: Contains a conserved N-terminal oligomerization domain (NTD) that is involved in oligomerization and is essential for proper subapical membrane localization. The second PDZ domain mediates interaction with membranes containing phosphoinositol lipids. Belongs to the PAR3 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	296278257
NCBI GeneID	56288
NCBI Accession #	NP_001171714.1
NCBI GenBank Nucleotide #	NM_001184785.1
UniProt Accession #	Q8TEW0; Q5T2U1; Q5VUA2; Q5VUA3; Q5VWV0; Q5VWV1; Q5VWV3; Q5VWV4; Q5VWV5; Q6IQ47; Q8TCZ9; F5H5T0
Molecular Weight	Observed: 151 kD Predicted: 152 kDa

NCBI Official Full Name	partitioning defective 3 homolog isoform 2
NCBI Official Synonym Full Names	par-3 family cell polarity regulator
NCBI Official Symbol	PARD3
NCBI Official Synonym Symbols	Baz; ASIP; PAR3; PARD-3; PARD3A; SE2-5T2; PPP1R118; SE2-5L16; SE2-5LT1; PAR3alpha
NCBI Protein Information	partitioning defective 3 homolog
UniProt Protein Name	Partitioning defective 3 homolog
UniProt Gene Name	PARD3
UniProt Synonym Gene Names	PAR-3; PARD-3; ASIP

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://stage.aaabiotech.com/polyclonal/pard3-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324062>