

**PARD3 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8678b**

**Specification**

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**PARD3 Antibody (C-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q8TEW0</a>
Other Accession	<a href="#">Q9Z340</a> , <a href="#">Q99NH2</a>
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	151423
Antigen Region	1329-1356

**PARD3 Antibody (C-term) - Additional Information**

**Gene ID** 56288

**Other Names**

Partitioning defective 3 homolog, PAR-3, PARD-3, Atypical PKC isotype-specific-interacting protein, ASIP, CTCL tumor antigen se2-5, PAR3-alpha, PARD3, PAR3, PAR3A

**Target/Specificity**

This PARD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1329-1356 amino acids from the C-terminal region of human PARD3.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

PARD3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**PARD3 Antibody (C-term) - Protein Information**

**Name** PARD3 ([HGNC:16051](#))

**Synonyms** PAR3, PAR3A

**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](#)).

#### Cellular Location

Cytoplasm. Endomembrane system. Cell junction. Cell junction, tight junction. Cell junction, adherens junction {ECO:0000250|UniProtKB:Q99NH2}. Cell membrane. Cytoplasm, cell cortex. Cytoplasm, cytoskeleton. Note=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. Colocalized with SIRT2 in internode region of myelin sheath (By similarity). Presence of KRIT1, CDH5 and RAP1B is required for its localization to the cell junction.

#### Tissue Location

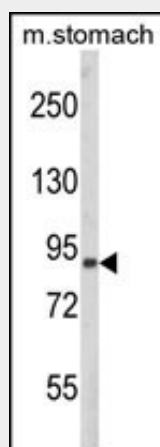
Widely expressed..

#### PARD3 Antibody (C-term) - Protocols

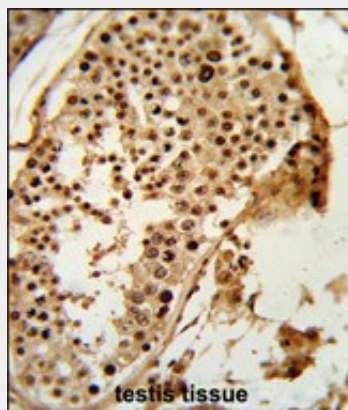
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

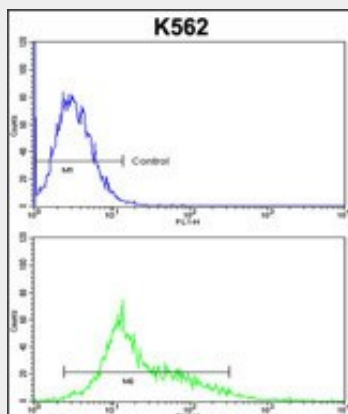
#### PARD3 Antibody (C-term) - Images



Western blot analysis of PARD3 Antibody (C-term) (Cat. #AP8678b) in mouse stomach tissue lysates (35ug/lane). PARD3 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human testis tissue reacted with PARD3 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



PARD3 Antibody (C-term) (Cat. #AP8678b) flow cytometric analysis of k562 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **PARD3 Antibody (C-term) - Background**

PARD proteins, which were first identified in *C. elegans*, are essential for asymmetric cell division and polarized growth, whereas CDC42 (MIM 116952) mediates the establishment of cell polarity. The CDC42 GTPase, which is controlled by nucleotide exchange factors (GEFs; see MIM 606057) and GTPase-activating proteins (GAPs; see MIM 604980), interacts with a large set of effector proteins that typically contain a CDC42/RAC (MIM 602048)-interactive binding (CRIB) domain.

### **PARD3 Antibody (C-term) - References**

Noda, Y., et al., *Genes Cells* 6 (2), 107-119 (2001)  
Beausoleil, S.A., et al., *Proc. Natl. Acad. Sci. U.S.A.* 101 (33), 12130-12135 (2004)