

**PARD3 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP51413**

### Specification

#### PARD3 Antibody - Product Information

Application	WB, ICC, IHC-P, E
Primary Accession	<a href="#">Q8TEW0</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	151 KDa

#### PARD3 Antibody - 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

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human PARD3. The exact sequence is proprietary.

##### Dilution

WB~~1:1000  
ICC~~N/A  
IHC-P~~N/A  
E~~N/A

##### Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

##### Storage

Store at -20 °C. Stable for 12 months from date of receipt

#### PARD3 Antibody - Protein Information

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

##### Synonyms PAR3, PAR3A

##### Function

Adapter protein involved in asymmetrical cell division and cell polarization processes (PubMed:[10954424](http://www.uniprot.org/citations/10954424), PubMed:[27925688](http://www.uniprot.org/citations/27925688)). Seems to play a central role in the formation of epithelial tight junctions (PubMed:[10954424](#), PubMed:[27925688](#))

href="http://www.uniprot.org/citations/27925688" target="\_blank">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](http://www.uniprot.org/citations/10934474)). Required for establishment of neuronal polarity and normal axon formation in cultured hippocampal neurons (PubMed: [19812038](http://www.uniprot.org/citations/19812038)), PubMed: [27925688](http://www.uniprot.org/citations/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 - 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 - Images

### PARD3 Antibody - Background

Adapter protein involved in asymmetrical cell division and cell polarization processes. Seems to play a central role in the formation of epithelial tight junctions. Targets the phosphatase PTEN to cell junctions (By similarity). Association with PARD6B 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. Required for establishment of neuronal polarity and normal axon formation in cultured hippocampal neurons.

### PARD3 Antibody - References

- Joberty G., et al. *Nat. Cell Biol.* 2:531-539(2000).  
Fang C.M., et al. *Cell Res.* 11:223-229(2001).  
Kohjima M., et al. *Biochem. Biophys. Res. Commun.* 299:641-646(2002).  
Gao L., et al. *Gene* 294:99-107(2002).  
Deloukas P., et al. *Nature* 429:375-381(2004).