

**PARD3 Antibody (aa1141-1190)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS14671****Specification**

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**PARD3 Antibody (aa1141-1190) - Product Information**

Application	WB, IHC-P, IF, E
Primary Accession	<a href="#">Q8TEW0</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	151kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 E~~N/A

**PARD3 Antibody (aa1141-1190) - 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**

PARD3 Antibody detects endogenous levels of total PARD3 protein.

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

**Precautions**

PARD3 Antibody (aa1141-1190) is for research use only and not for use in diagnostic or therapeutic procedures.

**PARD3 Antibody (aa1141-1190) - Protein Information****Name** PARD3 ([HGNC:16051](#))**Synonyms** PAR3, PAR3A**Function**

Adapter protein involved in asymmetrical cell division and cell polarization processes (PubMed:<a href="http://www.uniprot.org/citations/10954424" target="\_blank">10954424</a>, PubMed:<a href="http://www.uniprot.org/citations/27925688" target="\_blank">27925688</a>). Seems to play a central role in the formation of epithelial tight junctions (PubMed:<a href="http://www.uniprot.org/citations/27925688" target="\_blank">27925688</a>). 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:<a href="http://www.uniprot.org/citations/10934474" target="\_blank">10934474</a>). Required for establishment of neuronal polarity and normal axon formation in cultured hippocampal neurons (PubMed:<a href="http://www.uniprot.org/citations/19812038" target="\_blank">19812038</a>, PubMed:<a href="http://www.uniprot.org/citations/27925688" target="\_blank">27925688</a>).

#### 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..

#### Volume

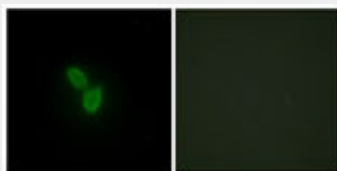
50 µl

#### PARD3 Antibody (aa1141-1190) - Protocols

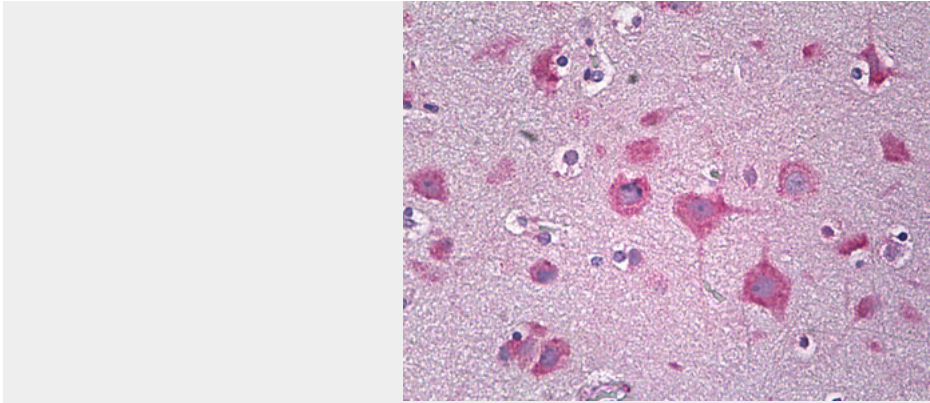
Provided below are standard protocols that you may find useful for product applications.

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

#### PARD3 Antibody (aa1141-1190) - Images



Immunofluorescence of HepG2 cells, using PARD3 Antibody.



Anti-PARD3 antibody IHC of human brain, cortex neurons.

#### **PARD3 Antibody (aa1141-1190) - 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. 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. 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 (aa1141-1190) - 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).