

**PARD3A Polyclonal Antibody**  
Catalog # AP71773**Specification****PARD3A Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IF
Primary Accession	<a href="#">Q8TEW0</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**PARD3A Polyclonal Antibody - Additional Information**

Gene ID 56288

**Other Names**

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

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.

IHC-P~~N/A

IF~~1:50~200

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**PARD3A Polyclonal Antibody - 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

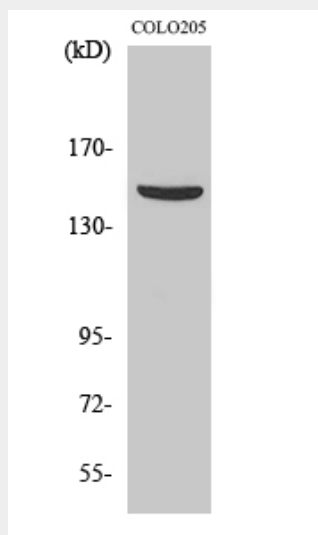
Widely expressed..

### PARD3A Polyclonal Antibody - Protocols

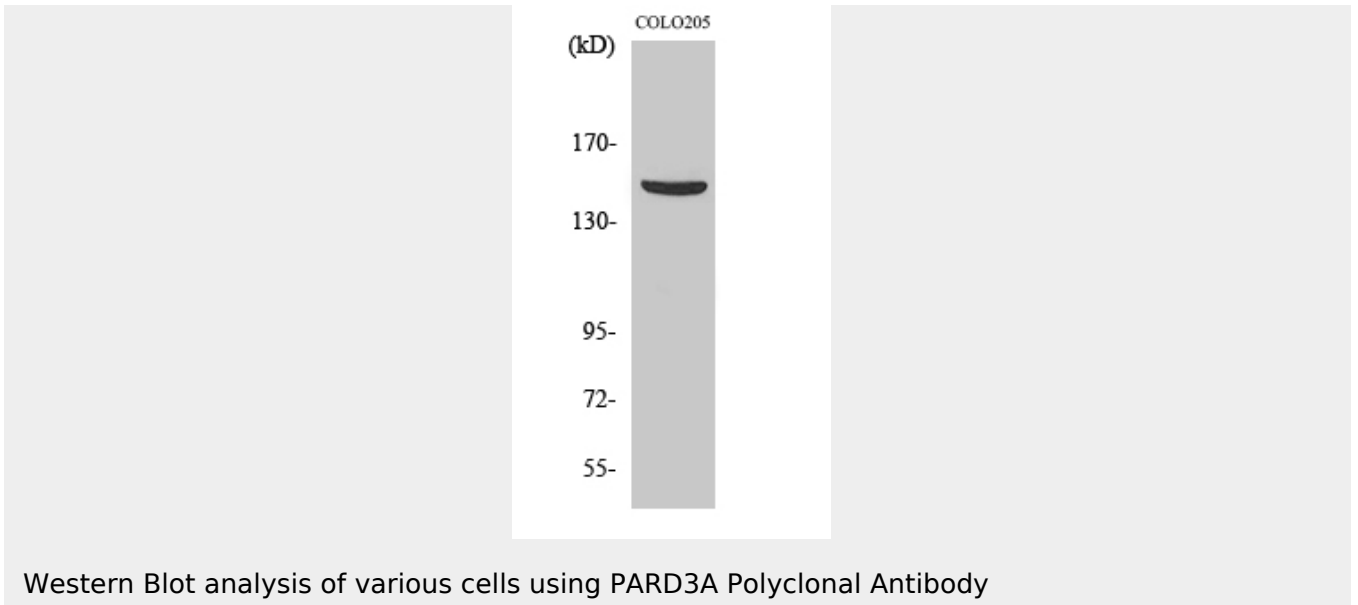
Provided below are standard protocols that you may find useful for product applications.

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

### PARD3A Polyclonal Antibody - Images



Western Blot analysis of various cells using PARD3A Polyclonal Antibody



### **PARD3A Polyclonal Antibody - Background**

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).