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PARD3 Antibody (aa1141-1190)

Rabbit Polyclonal Antibody

Catalog # ALS14671

Specification

PARD3 Antibody (aa1141-1190) - Product Information

Application	IF, IHC
Primary Accession	O8TEW0
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	151kDa KDa

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.

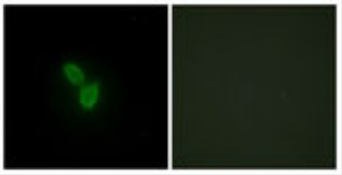
Precautions
PARD3 Antibody (aa1141-1190) is for research use only and not for use in diagnostic or therapeutic procedures.

PARD3 Antibody (aa1141-1190) - Protein Information

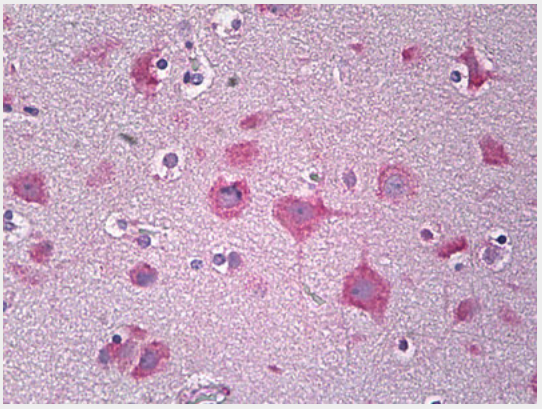
Name PARD3 (HGNC:16051)

Synonyms PAR3, PAR3A

Function
Adapter protein involved in asymmetrical cell division and cell polarization processes



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) -

(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..

Volume
50 µl

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).

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Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture