

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PARD3/Par3 in ELISAs. In direct ELISAs, 100% cross-reactivity with recombinant human PARD3b/Par3b is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 833517
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PARD3/Par3 Tyr451-Glu555 Accession # Q8TEW0
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

PARD3 (partitioning defective 3 homolog), also called Par3, is a widely expressed adapter protein involved in asymmetrical cell division, cell polarization, and tight junction formation. It forms a cell polarity complex with Par6 and aPKC (atypical protein kinase C), linking to PTEN (phosphatase and tensin homolog) in polarized epithelia and VE-Cadherin in polarized endothelia. The region used as an immunogen, human PARD3 amino acids (aa) 451-555 (of 1356 aa in full-length PARD3) shares 97% and 96% aa sequence identity with mouse and rat PARD3, respectively. It includes the second of three PDZ domains, a region which is involved in heterophilic interactions and is present within all 10 reported PARD3 isoforms that vary in length from 988 aa to 1356 aa.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.