

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 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

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