

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
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

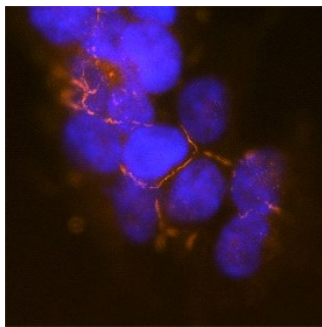
APPLICATIONS

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.

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



PARD3/Par3 in HEK293 Human Cell Line.
PARD3/Par3 was detected in immersion fixed HEK293 human embryonic kidney cell line using Mouse Anti-Human PARD3/Par3 Monoclonal Antibody (Catalog # MAB8030) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to plasma membrane. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.