

DESCRIPTION

Species Reactivity	Human
Specificity	Detects PRG-1/LPPR4 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 368701
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PRG-1/LPPR4 Ser285-Asp715 Accession # AAO85400
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

Western Blot 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

PRG-1 (plasticity-related gene-1) is a member of the lipid phosphate phosphatase-related protein (LPR) family. The 715 aa protein has a calculated (unglycosylated) molecular weight of 78 kDa. LPR members have six N-terminal transmembrane sequences and a C-terminal cytoplasmic domain thought to regulate phospholipid phosphatase activity. PRG-1 is expressed on axons in the hippocampus and is upregulated during axonal outgrowth. The C-terminal domain of human PRG-1 (amino acids 285-715) shares 95% and 94% amino acid identity with mouse and rat PRG-1, respectively.

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