

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
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 either lyophilized or 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
Western Blot	1 µg/mL	Recombinant Human PRG-1/LPPR4

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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

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.