

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PAG1 in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 504004
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived human PAG1 Ser38-Leu432 Accession # Q9NWQ8
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.

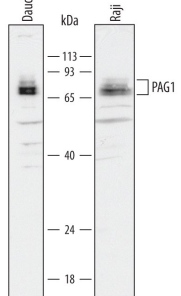
APPLICATIONS

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
Western Blot	1 µg/mL	See Below
Simple Western	10 µg/mL	See Below

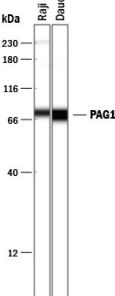
DATA

Western Blot




Detection of Human PAG1 by Western Blot. Western blot shows lysates of Daudi human Burkitt's lymphoma cell line and Raji human Burkitt's lymphoma cell line. PVDF Membrane was probed with 1 µg/mL of Human PAG1 Polyclonal Antibody (Catalog # MAB5285) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). Specific bands were detected for PAG1 at approximately 70-85 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human PAG1 by Simple Western™. Simple Western lane view shows lysates of Raji human Burkitt's lymphoma cell line and Daudi human Burkitt's lymphoma cell line, loaded at 0.2 mg/mL. A specific band was detected for PAG1 at approximately 76 kDa (as indicated) using 10 µg/mL of Mouse Anti-Human PAG1 Monoclonal Antibody (Catalog # MAB5285). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



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

PAG1 (Phosphoprotein-associated with glycosphingolipid enriched microdomains 1; also Cbp/Csk-binding protein) is a 47 kDa protein that runs anomalously at 70-85 kDa in SDS PAGE. PAG1 is a constitutively phosphorylated and palmitoylated protein that occurs in leukocyte lipid rafts. It negatively regulates Src family kinases by linking Csk to FynT. Human PAG1 is 432 amino acids (aa) in length. It is a type III (no signal sequence) transmembrane protein that contains a 16 aa extracellular region (aa 1-16) and a 395 aa cytoplasmic domain (aa 38-432). PAG1 is palmitoylated at Cys37 and phosphorylated at Tyr317 where it interacts with Csk. There is an FynT binding site at aa 131-137. One splice variant shows a 36 aa substitution for aa 293-432.