

DESCRIPTION

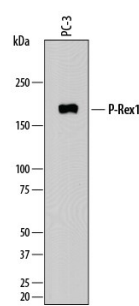
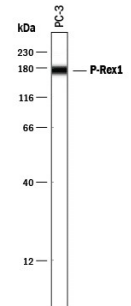

Species Reactivity	Human
Specificity	Detects human P-Rex1 in ELISAs and Western Blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 869704
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human P-Rex1 Lys1313-Arg1434 Accession # Q8TCU6
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	0.5 µg/mL	See Below
Simple Western	5 µg/mL	See Below

DATA

<p>Western Blot</p>  <p>Detection of Human P-Rex1 by Western Blot. Western blot shows lysates of PC-3 human prostate cancer cell line. PVDF membrane was probed with 0.5 µg/mL of Mouse Anti-Human P-Rex1 Monoclonal Antibody (Catalog # MAB8076) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for P-Rex1 at approximately 180 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.</p>	<p>Simple Western</p>  <p>Detection of Human P-Rex1 by Simple Western™. Simple Western lane view shows lysates of PC-3 human prostate cancer cell line, loaded at 0.5 mg/mL. A specific band was detected for P-Rex1 at approximately 175 kDa (as indicated) using 5 µg/mL of Mouse Anti-Human P-Rex1 Monoclonal Antibody (Catalog # MAB8076). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.</p> 
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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

PREX1 (phosphoinositol (3,4,5)-dependent Rac exchanger 1), also called P-Rex1, is a 185 kDa G-protein-activated guanine nucleotide exchange factor. It is mainly cytosolic, but also plasma membrane-associated, regulating cell motility and actin dynamics in neutrophils, migrating neurons, adipocytes and platelets. It is upregulated in cancers such as melanoma, prostate and breast. The 1659 amino acid (aa) human P-Rex1 contains DH, PH and tandem DEP GPCR signaling domains, and a PDZ scaffolding domain between aa 49-703. A 956 aa isoform with a 5 aa substitution for aa 1-703 is reported, and a 1561 aa isoform with a 91 aa substitution for aa 1471-1659 is predicted. The human P-Rex1 immunogen (aa 1313-1434) shares 94% and 95% aa sequence identity with mouse and rat P-Rex1, respectively.