

## DESCRIPTION

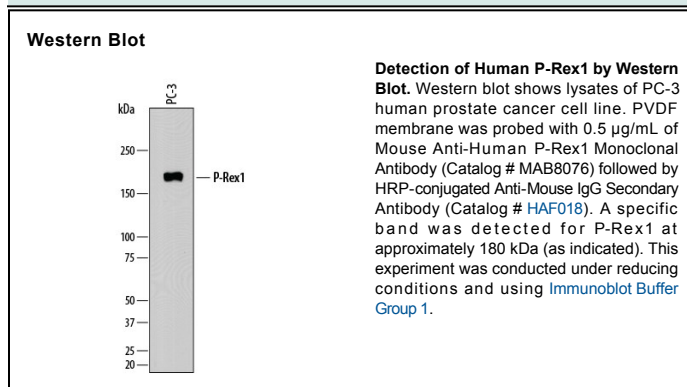
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human P-Rex1 in ELISAs and Western Blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 869704
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human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

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.