

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human PRL-2 and human PRL-3 with equal affinities in direct ELISAs. In direct ELISAs, this antibody shows 10% cross-reactivity with recombinant human PRL-1.                                                                                                        |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 334407                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human PRL-3<br>Ala2-Met173<br>Accession # O75365                                                                                                                                                                                        |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

**Immunohistochemistry** 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

Phosphatase of Regenerating Liver (PRL), also known as PTP4A, dephosphorylates tyrosine residues on proteins. Three PRL variants, PRL-1 (PTP4A1), PRL-2 (PTP4A2), and PRL-3 (PTP4A3) have been cloned and are 75% to 86% homologous. Prenylation at the C-terminal end targets PRL family members to membrane compartments in the cell, especially to early endosomes and the plasma membrane. PRL levels may correlate with cell migration rates and tumor invasiveness, and PRL overexpression is known to cause an increase in the metastatic capability of cancer cell lines.

## PRODUCT SPECIFIC NOTICES

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