

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Mouse                                                                                                      |
| <b>Specificity</b>                                                                                                                                                                                      | Detects mouse FPRP/PTGFRN in direct ELISAs and Western blots.                                              |
| <b>Source</b>                                                                                                                                                                                           | Polyclonal Sheep IgG                                                                                       |
| <b>Purification</b>                                                                                                                                                                                     | Antigen Affinity-purified                                                                                  |
| <b>Immunogen</b>                                                                                                                                                                                        | Mouse myeloma cell line NS0-derived recombinant mouse FPRP/PTGFRN<br>Arg22-Pro832<br>Accession # NP_035327 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 405<br>Excitation Wavelength: 405 nm<br>Emission Wavelength: 421 nm                            |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                               |
| *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.

|                       |                                                                        |
|-----------------------|------------------------------------------------------------------------|
| <b>CyTOF-ready</b>    | Optimal dilution of this antibody should be experimentally determined. |
| <b>Western Blot</b>   | Optimal dilution of this antibody should be experimentally determined. |
| <b>Flow Cytometry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

FPRP (F<sub>2α</sub> Prostaglandin receptor Regulatory Protein; also CD315, EWI-F and CD9 partner-1/P-1) is a 130 kDa type I transmembrane (TM) glycoprotein member of the EWI subfamily, Ig superfamily of molecules. It associates with the 7-TM prostaglandin F<sub>2α</sub> receptor, inhibiting its activity. It also forms complexes with 4-TM CD9 and CD81, linking these molecules to the intracellular actin cytoskeleton. Mature mouse FPRP is 858 amino acids (aa) in length. Its extracellular domain (ECD) contains six C2-type Ig-like domains (aa 22-813) plus a Pro-Thr-Glu-Leu ER retention signal. The ECD of mouse FPRP (aa 22-832) shares 89% and 98% aa identity with the ECD of human and rat FPRP, respectively.

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