

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human FPRP/PTGFRN in direct ELISAs. Detects human, mouse, and rat FPRP/PTGFRN in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 998175
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human embryonic kidney cell, HEK293-derived human FPRP/PTGFRN Pro27-Pro832 Accession # Q9P2B2
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

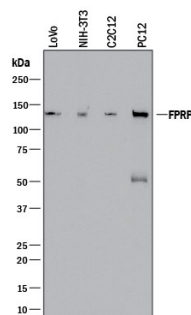
APPLICATIONS

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	2 µg/mL	See Below
Immunohistochemistry	5-25 µg/mL	See Below

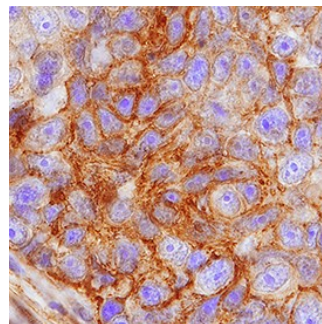
DATA

Western Blot



Detection of Human, Mouse, and Rat FPRP/PTGFRN by Western Blot. Western blot shows lysates of LoVo human colorectal adenocarcinoma cell line, NIH-3T3 mouse embryonic fibroblast cell line, C2C12 mouse myoblast cell line, and PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human/Mouse/Rat FPRP/PTGFRN Monoclonal Antibody (Catalog # MAB10043) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for FPRP at approximately 135 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



FPRP/PTGFRN in Human Lung Cancer Tissue. FPRP/PTGFRN was detected in immersion fixed paraffin-embedded sections of human lung cancer tissue using Mouse Anti-Human FPRP/PTGFRN Monoclonal Antibody (Catalog # MAB10043) at 5 µg/mL for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to cell surfaces in cancer cells. View our protocol for [IHC Staining with VisUCyte HRP Polymer Detection Reagents](#).

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

FPRP (F₂α 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 F₂α receptor, inhibiting its activity. It also forms complexes with 4-TM CD9 and CD81, linking these molecules to the intracellular actin cytoskeleton.