

DESCRIPTION

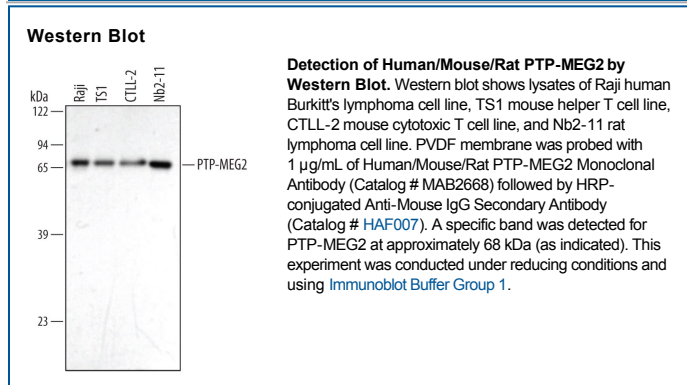
Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat PTP-MEG2.
Source	Monoclonal Mouse IgG _{2B} Clone # 291835
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PTP-MEG2 Glu2-Gln593 Accession # P43378
Formulation	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	1 µg/mL	See Below
Immunocytochemistry	8-25 µg/mL	Immersion fixed human granulocytes

DATA



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

Megakaryocyte protein tyrosine phosphatase 2 (PTP-MEG2), also known as PTPN9, contains an N-terminal domain homologous to the yeast retinaldehyde binding domain Sec14p and a C-terminal phosphatase domain. The Sec14p domain targets PTP-MEG2 to the membrane of secretory vesicles, where it promotes vesicle fusion. Elevated levels of membrane-bound PTP-MEG2 activity in erythroid progenitor cells are observed in polycythemia vera and may affect responsiveness to colony stimulating factors.