

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human PTPN14 in Western blots. In Western blots, this antibody does not cross-react with recombinant human (rh) PTPN13 or rhPTPN22.
Source	Monoclonal Mouse IgG _{2B} Clone # 448701
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PTPN14 Leu329-Leu900 Accession # Q15678.2
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
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

Protein Tyrosine Phosphatase, Non-receptor type 14 (PTPN14), also called Phosphatase with Ezrin Domain (PEZ) and PTP36, is a 135 kDa cytosolic protein that dephosphorylates tyrosine residues in proteins. PTPN14's Ezrin domain is homologous to erythrocyte Band 4.1 protein, targeting the phosphatase to cytoskeletal elements such as actin. PTPN14 associates with beta-catenin in adhesion zones in cells that are touching, but is nuclear in isolated, proliferating cells. Loss-of-function mutations in PTPN14 are found in 26% of colorectal cancers, suggesting it is a tumor suppressor.

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