#5311 Store at -20C

PTP1B Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: WB | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 50 | Source: Rabbit | UniProt ID: #P18031 | Entrez-Gene Id: 5770 | |
|------------------------------|---|--|------------------------|-------------------|------------------------|-------------------------|--|
| Product Usage Information | Ар | Application | | | Dilution | | |
| | We | estern Blotting | | | 1:1000 | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. | | | | | |
| Specificity / Sens | itivity PTF | PTP1B Antibody detects endogenous levels of total PTP1B protein. | | | | | |
| Source / Purificat | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human PTP1B protein. Antibodies are purified by protein A and peptide affinity chromatography. | | | | | | |
| Background | (PTI regu knoo | Protein-tyrosine phosphatase 1B (PTP1B) is the original member of the protein tyrosine phosphatase (PTP) family of proteins (1). PTP1B is highly expressed in insulin-responsive tissues and negatively regulates insulin, as well as integrin, through dephosphorylation of phosphotyrosine residues (2-4). PTP1B knockout mice show resistance to dietary weight gain and enhanced insulin sensitivity, suggesting a possible role in treatment of obesity as well as type 2 diabetes (5). | | | | | |
| Background Refe | 2. K 3. K 4. Li | Liang, F. et al. (2005) J Biol Chem 280, 24857-63. Kenner, K.A. et al. (1996) J Biol Chem 271, 19810-6. Klaman, L.D. et al. (2000) Mol Cell Biol 20, 5479-89. Liu, F. et al. (1998) Curr Biol 8, 173-6. Elchebly, M. et al. (1999) Science 283, 1544-8. | | | | | |

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4° C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

Trademarks and Patents

Limited Uses

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

information

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or

PTP1B Antibody (#5311) Datasheet Without Images Cell Signaling Technology

otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.