Anti-PTP1B

Cat #: HM1293
Goat polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND
The phosphorylation of proteins at tyrosine residues is an important regulatory component of signal transduction. This reversible process involves both tyrosine kinases and protein tyrosine phosphatases (PTPs). Membrane associated PTPs include SH-PTP1 (PTP1C, HCP, SHP), SH-PTP2 (Syp, PTP1D), PTP-H1 and PTP1B. PTP1B is a negative regulator of insulin signaling by dephosphorylating the phosphotryosine residues of insulin receptor kinase. It also dephosphorylates epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicates the role of this PTP in cell growth control, and cell response to interferon stimulation.

SPECIFICITY
This antibody specifically reacts with PTP1B of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry; non cross-reactive with SH-PTP1, SH-PTP2.

IMMUNOGEN
A peptide mapping at the amino terminus of protein tyrosine phosphatase PTP1B of human origin.

STORAGE
This antibody is stable for 12 months when stored at 2-8° C.

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