

产品名称: PTP1B (phospho Ser50) Rabbit Polyclonal Antibody
产品货号: APRab05315



产品概述 (Summary)

产品名称 (Production Name)	PTP1B (phospho Ser50) Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat,Monkey

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Phosphorylated
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	PTPN1
别名 (Alternative Names)	PTPN1; PTP1B; Tyrosine-protein phosphatase non-receptor type 1; Protein-tyrosine phosphatase 1B; PTP-1B
基因 ID (Gene ID)	5770.0
蛋白 ID (SwissProt ID)	P18031.The antiserum was produced against synthesized peptide derived from human PTP1B around the phosphorylation site of Ser50. AA range:16-65

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
蛋白分子量 (Molecular Weight)	49kDa

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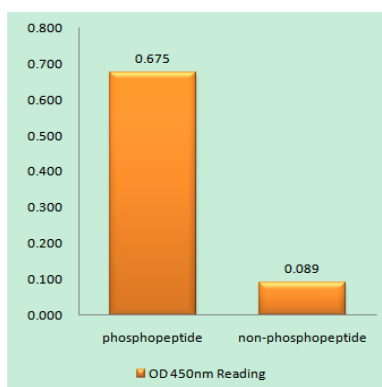
研究背景 (Background)

The protein encoded by this gene is the founding member of the protein tyrosine phosphatase (PTP) family, which was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP has been shown to act as a negative regulator of insulin signaling by dephosphorylating the phosphotyrosine residues of insulin receptor kinase. This PTP was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of catalytic activity: Protein tyrosine phosphate + H₂O = protein tyrosine + phosphate. function: May play an important role in CKII- and p60c-src-induced signal transduction cascades. PTM: Oxidized on Cys-215; the Cys-SOH formed in response to redox signaling reacts with the alpha-amido of the following residue to form a 4-amino-3-isothiazolidinone serine cross-link, triggering a conformational change that inhibits substrate binding and activity. The active site can be restored by reduction. similarity: Belongs to the protein-tyrosine phosphatase family. Non-receptor class 1 subfamily. similarity: Contains 1 tyrosine-protein phosphatase domain.

研究领域 (Research Area)

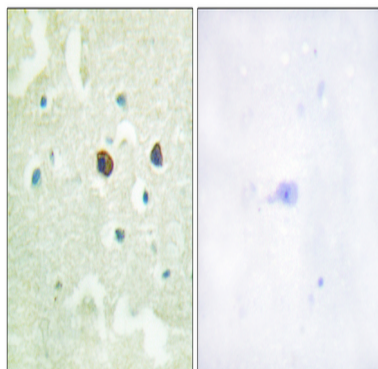
Adherens_Junction; Insulin_Receptor;

图片 (Image Data)

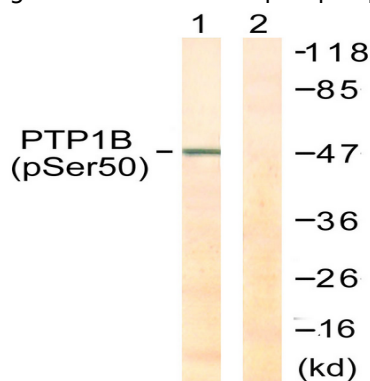


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PTP1B (Phospho-Ser50) Antibody

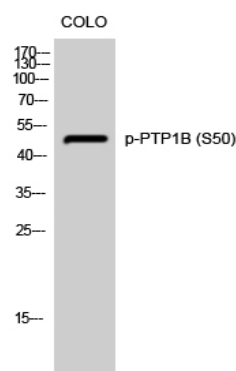
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Immunohistochemistry analysis of paraffin-embedded human brain, using PTP1B (Phospho-Ser50) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COS7 cells treated with UV 30', using PTP1B (Phospho-Ser50) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of COLO cells using Phospho-PTP1B (S50) Polyclonal Antibody diluted at 1: 500

注意事项 (Note)

For research use only .