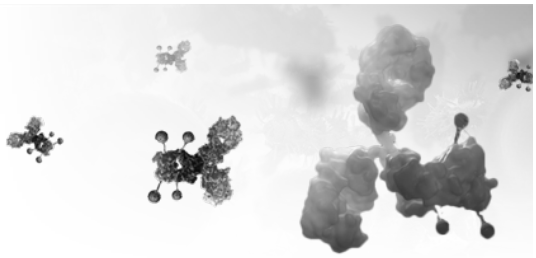

Human PTPN2 peptide (DAG-P1228)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. 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. Epidermal growth factor receptor and the adaptor protein Shc were reported to be substrates of this PTP, which suggested the roles in growth factor mediated cell signaling. Multiple alternatively spliced transcript variants encoding different isoforms have been found. Two highly related but distinctly processed pseudogenes that localize to chromosomes 1 and 13, respectively, have been reported. [provided by RefSeq, May 2011]
Specificity	Isoform PTPA is probably the major isoform. Isoform PTPB is expressed in T-cells and in placenta.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the protein-tyrosine phosphatase family. Non-receptor class 1 subfamily.Contains 1 tyrosine-protein phosphatase domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	PTPN2 protein tyrosine phosphatase, non-receptor type 2 [Homo sapiens (human)]
Official Symbol	PTPN2

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Synonyms	PTPN2; protein tyrosine phosphatase, non-receptor type 2; PTN2; PTPT; TCPTP; TC-PTP; TCELLPTP; tyrosine-protein phosphatase non-receptor type 2; T-cell protein tyrosine phosphatase;
Entrez Gene ID	5771
mRNA Refseq	NM_001207013.1
Protein Refseq	NP_001193942.1
UniProt ID	K7ENG3
Chromosome Location	18p11.3-p11.2
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; Immune System, organism-specific biosystem; Interferon Signaling, organism-specific biosystem; Interferon gamma signaling, organism-specific biosystem; Regulation of IFNG signaling, organism-specific biosystem;
Function	integrin binding; protein binding; protein kinase binding; protein tyrosine phosphatase activity; protein tyrosine phosphatase activity; receptor tyrosine kinase binding; syntaxin binding;

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