



# Human PTPN21 blocking peptide (DAG-P1097)

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

## PRODUCT INFORMATION

<b>Antigen Description</b>	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. 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 contains an N-terminal domain, similar to cytoskeletal- associated proteins including band 4.1, ezrin, merlin, and radixin. This PTP was shown to specially interact with BMX/ETK, a member of Tec tyrosine kinase family characterized by a multimodular structures including PH, SH3, and SH2 domains. The interaction of this PTP with BMX kinase was found to increase the activation of STAT3, but not STAT2 kinase. Studies of the similar gene in mice suggested the possible roles of this PTP in liver regeneration and spermatogenesis. [provided by RefSeq, Jul 2008]
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	BL
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">PTPN21 protein tyrosine phosphatase, non-receptor type 21 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	PTPN21
<b>Synonyms</b>	PTPN21; protein tyrosine phosphatase, non-receptor type 21; PTPD1; PTPRL10; tyrosine-protein phosphatase non-receptor type 21; protein tyrosine phosphatase D1; protein-tyrosine phosphatase D1; dJ1175B15.2 (protein tyrosine phosphatase, non-receptor type 21);

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<b>Entrez Gene ID</b>	<a href="#">11099</a>
<b>mRNA Refseq</b>	<a href="#">NM_007039.3</a>
<b>Protein Refseq</b>	<a href="#">NP_008970.2</a>
<b>UniProt ID</b>	Q16825
<b>Chromosome Location</b>	14q31.3
<b>Pathway</b>	Signaling events mediated by focal adhesion kinase, organism-specific biosystem;
<b>Function</b>	protein binding; protein tyrosine phosphatase activity;

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