



Anti-PTPN13 (aa 66-175) polyclonal antibody (DPAB-DC2617)

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. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP is a large intracellular protein. It has a catalytic PTP domain at its C-terminus and two major structural domains: a region with five PDZ domains and a FERM domain that binds to plasma membrane and cytoskeletal elements. This PTP was found to interact with, and dephosphorylate, Fas receptor and IkappaBalpha through the PDZ domains. This suggests it has a role in Fas mediated programmed cell death. This PTP was also shown to interact with GTPase-activating protein, and thus may function as a regulator of Rho signaling pathways. Four alternatively spliced transcript variants, which encode distinct proteins, have been reported.
Immunogen	PTPN13 (NP_006255, 66 a.a. ~ 175 a.a) partial recombinant protein with GST tag. The sequence is FTDENISNQDLRAFTAPEVLQNQSLTSLSDVEKIHYSLGMTLYWGADYEV PQSQPIKLG DHLNSILLGMCEDVIYARVSVRTVLDACSAHIRNSNCAPSF SYVKHLVKL
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PTPN13 protein tyrosine phosphatase, non-receptor type 13 (APO-1/CD95 (Fas)-associated phosphatase) [Homo sapiens (human)]
Official Symbol	PTPN13
Synonyms	PTPN13; protein tyrosine phosphatase, non-receptor type 13 (APO-1/CD95 (Fas)-associated phosphatase); PNP1; FAP-1; PTP1E; PTPL1; PTPLE; PTP-BL; hPTP1E; PTP-BAS; tyrosine-protein phosphatase non-receptor type 13; hPTPE1; protein-tyrosine phosphatase 1E; protein-tyrosine phosphatase PTPL1; fas-associated protein-tyrosine phosphatase 1;
Entrez Gene ID	5783
Protein Refseq	NP_006255
UniProt ID	Q12923
Chromosome Location	4q21.3
Pathway	Apoptosis Modulation and Signaling; Fc-epsilon receptor I signaling in mast cells.
Function	protein binding; protein tyrosine phosphatase activity;