



Human BPNT1 blocking peptide (CDBP0602)

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

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-Bisphosphate 3-nucleotidase antibody
Antigen Description	BPNT1, also called bisphosphate 3-prime-nucleotidase, or BPntase, is a member of a magnesium-dependent phosphomonoesterase family. Lithium, a major drug used to treat manic depression, acts as an uncompetitive inhibitor of BPntase. The predicted human protein is 92% identical to mouse BPntase. BPntase's physiologic role in nucleotide metabolism may be regulated by inositol signaling pathways. The inhibition of human BPntase may account for lithium-induced nephrotoxicity.
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	BPNT1 3(2), 5-bisphosphate nucleotidase 1 [Homo sapiens]
Official Symbol	BPNT1
Synonyms	BPNT1; 3(2), 5-bisphosphate nucleotidase 1; 3(2),5-bisphosphate nucleotidase 1; BPntase; PAP-inositol-1,4-phosphatase; bisphosphate 3-nucleotidase 1; PIP;

Entrez Gene ID	10380
mRNA Refseq	NM_006085
Protein Refseq	NP_006076
UniProt ID	O95861
Chromosome Location	1q42
Pathway	Biological oxidations, organism-specific biosystem; Cytosolic sulfonation of small molecules, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Phase II conjugation, organism-specific biosystem; Sulfur metabolism, organism-specific biosystem; Sulfur metabolism, conserved biosystem;
Function	3(2),5-bisphosphate nucleotidase activity; hydrolase activity; magnesium ion binding;