

Mouse anti-Human BPNT1 Monoclonal Antibody | anti-BPNT1 antibody

BPNT1 (3'(2'),5'-bisphosphate nucleotidase 1, Bisphosphate 3'-nucleotidase 1, PAP-inositol 1,4-phosphatase)

CATALOG # AAA24061	HOST Mouse	REACTIVITY Human	APPLICATIONS ELISA, Western Blot, Immunohistochemistry, Immunofluorescence
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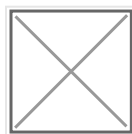
PRODUCT SYNONYMS

BPNT1; Monoclonal Antibody; BPNT1 (3'(2'); 5'-bisphosphate nucleotidase 1; Bisphosphate 3'-nucleotidase 1; PAP-inositol 1; 4-phosphatase); Anti -BPNT1 (3'(2'); anti-BPNT1 antibody

PRODUCT SPECIFICATIONS

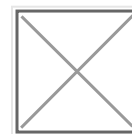
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2E1
Specificity	Recognizes human BPNT1.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2.
Sequence	MASSNTVLMR LVASAYSIAQ KAGMIVRRVI AEGDLGIVEK TCATDLQTKA DRLAQMSICS SLARKFPKLT IIGEEDLPSE EVDQELIEDS QWEEILKQPC
Applicable Applications for anti-BPNT1 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence)
Application Notes	Suitable for use in Immunofluorescence, ELISA, Western Blot and Immunohistochemistry. Dilution: Immunofluorescence: 10ug/ml Immunohistochemistry (Formalin fixed paraffin embedded): 3ug/ml
Immunogen	Partial recombinant corresponding to aa1-100 from BPNT1 (NP_006076) with GST tag. MW of the GST tag alone is 26kD.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

IMAGES



WB (Western Blot)

BPNT1 monoclonal antibody Western Blot analysis of BPNT1 expression in HeLa.



Application Data

Detection limit for recombinant GST tagged BPNT1 is ~0.03ng/ml as a capture antibody.

**IF (Immunofluorescence)**

Immunofluorescence of monoclonal antibody to BPNT1 on HeLa cell. [antibody concentration 10ug/ml]

**IHC (Immunohistochemistry)**

Immunoperoxidase of monoclonal antibody to BPNT1 on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 3ug/ml]

**WB (Western Blot)**

Western Blot analysis of BPNT1 expression in transfected 293T cell line by BPNT1 monoclonal antibody. Lane 1: BPNT1 transfected lysate (28.1kD). Lane 2: Non-transfected lysate.

**WB (Western Blot)**

Western Blot detection against Immunogen (36.74kD).

ADDITIONAL INFORMATION

Related Product Information for anti-BPNT1 antibody	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.
Product Categories/Family for anti-BPNT1 antibody	Antibodies ; Abs to Enzymes ; Nucleotidase

NCBI AND UNIPROT INFORMATION

NCBI GI #	17389533
NCBI GeneID	10380
UniProt Accession #	O95861 ; Q8WVL5 ; Q9UGJ3 ; A8K7C8 ; D3DTA9
Molecular Weight	33,392 Da
NCBI Official Full Name	BPNT1 protein
NCBI Official Synonym Full Names	3'(2'), 5'-bisphosphate nucleotidase 1
NCBI Official Symbol	BPNT1
NCBI Official Synonym Symbols	PIP
NCBI Protein Information	3'(2'),5'-bisphosphate nucleotidase 1; 3'(2'),5'-bisphosphate nucleotidase 1; BPntase; PAP-inositol 1,4-phosphatase; PAP-inositol-1,4-phosphatase; bisphosphate 3'-nucleotidase 1
UniProt Protein Name	3'(2'),5'-bisphosphate nucleotidase 1
UniProt Gene Name	BPNT1
UniProt Synonym Gene Names	PIP
UniProt Entry Name	BPNT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/bpnt1-antibody-clone-2e1-western-blot-immunohistochemistry-immunofluorescence-elisa/24061>