







# **ENPP1 Polyclonal Antibody**

(Membrane component chromosome 6 surface marker 1) (Phosphodiesterase l/Inucleotide pyrophosphatase 1) (Plasma-cell membrane g  Immunogen  Synthesized peptide derived from part region of human protein  Specificity  ENPP1 Polyclonal Antibody detects endogenous levels of protein.  Formulation  Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.  Source  Polyclonal, Rabbit, IgG  Purification  The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution  WB 1:500-2000 ELISA 1:5000-20000  Concentration  1 mg/ml  Purity  ≥90%  Storage Stability  -20°C/1 year  Synonyms  Observed Band  101kD  Cell Pathway  [Ectonucleotide pyrophosphatase/phosphodiesterase family member 1]: Cell membrane; Single-pass type II membrane protein. Basolateral cell membrane; piolarized epithelial cells and in hepatocytes, and to matrix vesicles in osteoblast (PubMed:11598187), in bile duct cells and cancer cells, located to the apical cytoplasmic side (PubMed:11598187), [Ectonucleotide pyrophosphatase/phosphodiesterase family member 1, secreted form): Secreted Secreted following proteolytic cleavage.  Tissue Specificity  Expressed in plasma cells and also in a number of non-lymphoid tissues, including the distal convoluted tubule of the kidney, chondrocytes and epididymi (PubMed:3944688). Expressed in melanocytes but not in keratinocytes (PubMed:28964717).		
Reactivity	Catalog No	YP-Ab-07821
Applications WB;ELISA  Gene Name ENPP1 M6S1 NPPS PC1 PDNP1  Protein Name Ectonucleotide pyrophosphatase/phosphodiesterase family member 1 (E-NPP 1 (Membrane component chromosome 6 surface marker 1) (Phosphodiesterase I/mucleotide pyrophosphatase 1) (Plasma-cell membrane g Immunogen Synthesized peptide derived from part region of human protein Specificity ENPP1 Polyclonal Antibody detects endogenous levels of protein.  Formulation Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.  Source Polyclonal, Rabbit, IgG  Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution WB 1:500-2000 ELISA 1:5000-20000  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms  Observed Band 101kD  Cell Pathway [Ectonucleotide pyrophosphatase/phosphodiesterase family member 1]: Cell membrane ; Single-pass type II membrane protein. Basolateral cell membrane in polarized epithelial cells and in hepatocytes, and to matrix vesicles in osteoblast (PubMed:11598187). In bile duct cells and cancer cells, located to the apical cytoplasmic side (PubMed:11598187). ij Ectonucleotide pyrophosphatase/phosphodiesterase family member 1, secreted form]: Secreted Secreted following proteolytic cleavage.  Tissue Specificity Expressed in plasma cells and also in a number of non-lymphoid tissues, including the distal convoluted tubule of the kidney, chondrocytes and epididymi (PubMed:934468) Expressed in melanocytes but not in keratinocytes (PubMed:28964717).  Function catalytic activity: A dinucleotide + H(2)O = 2 mononucleotidescatalytic activity: Hydrolytically removes 5'-nucleotides successively from the 3'-hydroxy termin of 3'-hydroxy terminate of gloquelotides.gaution:1'tis uncertain whether Met-1 or Met-53 is the initiator_cofactor:Binds 2 divalent metal cations per suburbit, disease:Defects in ENPP1 are a cause of idiopathic infantile arterial	Isotype	IgG
Gene Name         ENPP1 M6S1 NPPS PC1 PDNP1           Protein Name         Ectonucleotide pyrophosphatase/phosphodiesterase family member 1 (E-NPP 1 (Membrane component chromosome 6 surface marker 1) (Phosphodiesterase I/nucleotide pyrophosphatase 1) (Plasma-cell membrane g           Immunogen         Synthesized peptide derived from part region of human protein           Specificity         ENPP1 Polyclonal Antibody detects endogenous levels of protein.           Formulation         Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.           Source         Polyclonal, Rabbit,IgG           Purification         The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.           Dilution         WB 1:500-2000 ELISA 1:5000-20000           Concentration         1 mg/ml           Purity         ≥90%           Storage Stability         -20°C/1 year           Synonyms         Cell Pathway           Observed Band         101kD           Cell Pathway         [Ectonucleotide pyrophosphatase/phosphodiesterase family member 1]: Cell membrane protein. Basolateral cell membrane in polarized epithelial cells and in hepatocytes, and to matrix vesicles in osteoblast (PubMed: 1598187). in bile duct cells and cancer cells, located to the apical cytoplasmic side (PubMed: 1598187). ; [Ectonucleotide pyrophosphatase/phosphodiesterase family member 1, secreted form]: Secreted following proteolytic cleavage.           Tissue Specificity         Expre	Reactivity	Human;Mouse;Rat
Protein Name    Ectonucleotide pyrophosphatase/phosphodiesterase family member 1 (E-NPP 1 (Membrane component chromosome 6 surface marker 1) (Phosphodiesterase 1/nucleotide pyrophosphatase 1) (Plasma-cell membrane g   Immunogen	Applications	WB;ELISA
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infancy. IIAC is characterized by calcification of the internal elastic lamina of muscular arteries and stenosis due to myointimal proliferation., disease: Defects in ENPP1 are a cause of increased susceptibility for ossification of the posterior longitudinal ligament of the spine (OPLL) [MIM:602475]. OPLL is a common form of human myelopathy with a prevalence of as much as 4% in a variety of ethnic groups., disease: Defec

#### **Background**

This gene is a member of the ecto-nucleotide pyrophosphatase/phosphodiesterase (ENPP) family. The encoded protein is a type II transmembrane glycoprotein comprising two identical disulfide-bonded subunits. This protein has broad specificity and cleaves a variety of substrates, including phosphodiester bonds of nucleotides and nucleotide sugars and pyrophosphate bonds of nucleotides and nucleotide sugars. This protein may function to hydrolyze nucleoside 5' triphosphates to their corresponding monophosphates and may also hydrolyze diadenosine polyphosphates. Mutations in this gene have been associated with 'idiopathic' infantile arterial calcification, ossification of the posterior longitudinal ligament of the spine (OPLL), and insulin resistance. [provided by RefSeq, Jul 2008],

# matters needing attention

Avoid repeated freezing and thawing!

### **Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images	