



# Anti-ENPP1 monoclonal antibody (DCABH-11412)

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

## PRODUCT INFORMATION

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| <b>Antigen Description</b> | 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. |
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| <b>Immunogen</b>          | A synthetic peptide of human ENPP1 is used for rabbit immunization.      |
| <b>Isotype</b>            | IgG  |
| <b>Source/Host</b>        | Rabbit   |
| <b>Species Reactivity</b> | Human  |
| <b>Purification</b>       | Protein A  |
| <b>Conjugate</b>          | Unconjugated   |
| <b>Applications</b>       | Western Blot (Transfected lysate); ELISA                                 |
| <b>Buffer</b>             | In 1x PBS, pH 7.4  |
| <b>Preservative</b>       | None   |
| <b>Storage</b>            | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

# GENE INFORMATION

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|---------------------|--|
| Gene Name           | <a href="#">ENPP1 ectonucleotide pyrophosphatase/phosphodiesterase 1 [ Homo sapiens ]</a>  |
| Official Symbol     | ENPP1  |
| Synonyms            | ENPP1; ectonucleotide pyrophosphatase/phosphodiesterase 1; M6S1, NPPS, PDNP1; ectonucleotide pyrophosphatase/phosphodiesterase family member 1; PC 1; PCA1; E-NPP 1; Ly-41 antigen; alkaline phosphodiesterase 1; plasma-cell membrane glycoprotein 1; plasma-cell membrane glycoprotein PC-1; membrane component chromosome 6 surface marker 1; phosphodiesterase I/nucleotide pyrophosphatase 1; membrane component, chromosome 6, surface marker 1; M6S1; NPP1; NPPS; PC-1; ARHR2; PDNP1; |
| Entrez Gene ID      | <a href="#">5167</a>   |
| Protein Refseq      | <a href="#">NP_006199</a>  |
| UniProt ID          | <a href="#">P22413</a>   |
| Chromosome Location | 6q22-q23   |
| Pathway             | Endochondral Ossification, organism-specific biosystem; Insulin Signaling, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; Nicotinate and nicotinamide metabolism, organism-specific biosystem.   |
| Function            | 3-phosphoadenosine 5-phosphosulfate binding; ATP binding; NADH pyrophosphatase activity; hydrolase activity; insulin receptor binding; metal ion binding; nucleic acid binding; nucleoside-triphosphate diphosphatase activity; nucleotide diphosphatase activi  |