

For Research Use Only

ENPP1 Polyclonal antibody

Catalog Number: 28886-1-AP



Basic Information

Catalog Number: 28886-1-AP	GenBank Accession Number: BC059375	Purification Method: Antigen affinity purification
Source: Rabbit	GeneID (NCBI): 5167	Recommended Dilutions: WB: 1:2000-1:10000
Isotype: IgG	UNIPROT ID: P22413	
Immunogen Catalog Number: AG30355	Full Name: ectonucleotide pyrophosphatase/phosphodiesterase 1	
	Calculated MW: 105 kDa	
	Observed MW: 103-130 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB: HEK-293 cells, HepG2 cells, MDA-MB-231 cells
Species Specificity: human	

Background Information

ENPP1, also known as PC1 or PC-1, is a type II transmembrane glycoprotein that serves as a critical enzymatic gatekeeper at the interface of cellular metabolism, mineral homeostasis, and immune signaling. It plays a crucial role in bone mineralization and soft tissue calcification, through hydrolyzing high-energy phosphate bonds to produce inorganic pyrophosphate (PPi), a potent inhibitor of ectopic mineral deposition (PMID: 37871131, PMID: 30799235, PMID: 40535334). ENPP1 inhibition protects cGAMP and ATP and reduces adenosine levels in the tumor microenvironment, activates antigen-presenting cells and increases T-cell infiltration promoting anticancer immunity (PMID: 40410143).

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

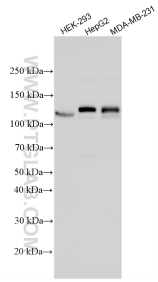
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28886-1-AP (ENPP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.