

For Research Use Only

ENPP1 Recombinant monoclonal antibody

Catalog Number: 87613-1-RR



Basic Information

Catalog Number: 87613-1-RR	GenBank Accession Number: NM_006208.2	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 5167	CloneNo.: 252965A5
Isotype: IgG	UNIPROT ID: P22413	Recommended Dilutions: WB: 1:5000-1:50000
Immunogen Catalog Number: EG6489	Full Name: ectonucleotide pyrophosphatase/phosphodiesterase 1	
	Calculated MW: 105 kDa	
	Observed MW: 110-140 kD	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : NIH/3T3 cells, 4T1 cells
Species Specificity: human, mouse, rat	

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:

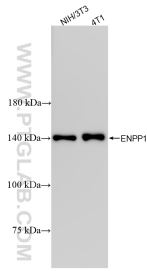
T: 4006900926

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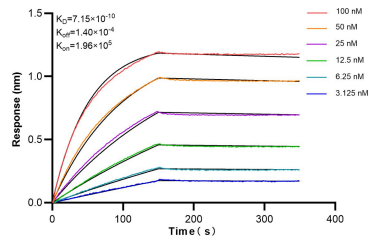
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87613-1-RR (ENPP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Bilayer interferometry (BLI) kinetic assays of 87657-1-RR against Human ENPP1 were performed. The affinity constant is 0.715 nM.