

Product Datasheet

ENPP-1 Antibody NBP2-27561

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NBP2-27561

ENPP-1 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

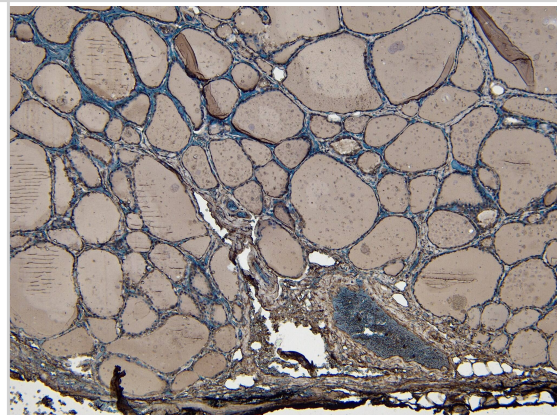
Product Description	
Host	Goat
Gene ID	5167
Gene Symbol	ENPP1
Species	Human, Rat, Chicken
Reactivity Notes	Rat reactivity reported in (PMID: 17569759). Chicken reactivity reported in scientific literature (PMID: 30271993).
Immunogen	Peptide with sequence C-KTHLPTFSQED corresponding to C-Terminus according to NP_006199.2.

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot, Immunohistochemistry 4 ug/ml, Immunohistochemistry-Paraffin 4 ug/ml, Peptide ELISA 1:64000
Application Notes	WB reactivity reported in scientific literature (PMID: 20634316).

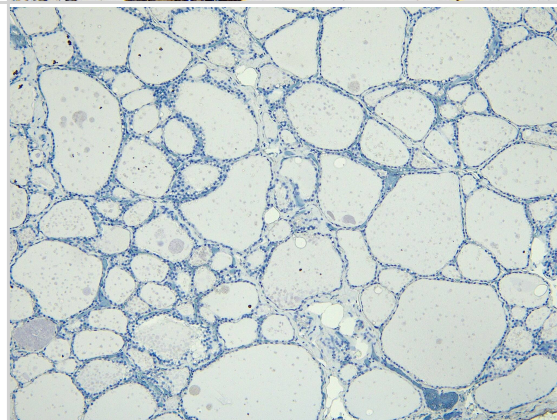


Images

Immunohistochemistry-Paraffin: ENPP-1 Antibody [NBP2-27561] - (4ug/ml) staining of paraffin embedded Human Thyroid Gland. Heat induced antigen retrieval with citrate buffer Ph 6, HRP-staining.



Immunohistochemistry-Paraffin: ENPP-1 Antibody [NBP2-27561] - Negative Control showing staining of paraffin embedded Human Thyroid Gland, with no primary antibody.



Publications

Takeda Taka-Aki, Miyazaki Shiho, Kobayashi Miki et al. Zinc deficiency causes delayed ATP clearance and adenosine generation in rats and cell culture models. *Frontiers in Immunology* 2018-08-22 [PMID: 30271993] (WB, Chicken)

Meyre D, Bouatia-Naji N, Tounian A et al. Variants of ENPP1 are associated with childhood and adult obesity and increase the risk of glucose intolerance and type 2 diabetes. *Nat Genet* 2005-08-01 [PMID: 16025115]

Orriss IR, Utting JC, Brandao-Burch A et al. Extracellular nucleotides block bone mineralization in vitro: evidence for dual inhibitory mechanisms involving both P2Y2 receptors and pyrophosphate. *Endocrinology*. 2007-09-01 [PMID: 17569759] (WB, Rat)

Details:

WB: Primary rat osteoblasts (Fig 4B). ENPP-1 protein expression was decreased in osteoblasts treated with ATP, UTP, and PPi compared to untreated osteoblasts. ENPP1 was detected at ~ 150 kDa.

Lim J, Zhou M, Veenstra TD, Morrison DK. The CNK1 scaffold binds cytohesins and promotes insulin pathway signaling. *Genes Dev*. 2010-07-15 [PMID: 20634316] (WB)

Details:

WB: Serum starved HepG2 cells stimulated with insulin, Fig 2 & 3.

Liang J, Fu M, Ciociola E et al. Role of ENPP1 on adipocyte maturation. *PLoS One*. 2007-09-12 [PMID: 17849011] (WB, Human)

Details:

WB: 3T3-L1 adipocytes transfected with human ENPP1 (Fig 1). Note: The specificity of the ENPP1 antibody was validated by WB in human ENPP1 overexpressing cells (Fig 1). ENPP1 was detected at 130 kDa.

Pan W, Ciociola E, Saraf M et al. Metabolic consequences of ENPP1 overexpression in adipose tissue. *Am J Physiol Endocrinol Metab*. 2011-11-01 [PMID: 21810932] (WB, Human)

Details:

WB: ENPP1 (human) transgenic mice tissue. The specificity of the ENPP1 antibody was validated by WB in ENPP1 (the mice carried a human ENPP1 transgene), see publication for details.

Foster BL, Nagatomo KJ, Nociti FH Jr et al. Central role of pyrophosphate in acellular cementum formation. *PLoS One*. 2012-01-01 [PMID: 22675556] (IHC-P)

Details:

IHC(p) Bouin's Fixed Tissue (mouse wildtype and ENPP1 knockout mice peridontal tissues): Fig 9. Note: The specificity of the ENPP1 antibody was validated by IHC(P) in ENPP1 wildtype knockout mice (Fig 9).



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HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
NB600-816PEP	ENPP-1 Antibody Blocking Peptide

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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