

## UK Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB06948 - Goat Anti-ENPP1 / PC1 Antibody

Size: 100µg specific antibody in 200µl



### Target Protein

**Principal Names:** ENPP1, PC-1, ectonucleotide pyrophosphatase/phosphodiesterase 1, HGNC:3356, M6S1, NPP1, NPPS, PCA1, PDNP1, Ly-41 antigen, OTTHUMP00000043194, alkaline phosphodiesterase 1, membrane component, chromosome 6, surface marker 1, phosphodiesterase I/nucleotide pyrophosphatase 1, plasma-cell membrane glycoprotein 1

**Official Symbol:** ENPP1

**Accession Number(s):** NP\_006199.2

**Human GeneID(s):** [5167](#)

### Immunogen

Peptide with sequence C-KTHLPTFSQED, from the C Terminus of the protein sequence according to NP\_006199.2.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:64000.

**Western blot:** Preliminary testing showed bands at approx., 25+150kDa in Human Liver lysates after 0.5-1µg/ml antibody staining (calculated Mwt of 105kDa according to NP\_006199.2). Both bands were successfully blocked by incubation with the immunizing peptide, and the 150Kdaa band is observed by other sources. Primary incubation 1 hour at room temperature.

**IHC:** Paraffin embedded Human Thyroid Gland. Recommended concentration: 4µg/ml.

### Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human, Mouse, Rat

### Specific References

**This antibody (previous batch) has been successfully used in IHC on Mouse:**

Takahito Mae, Tomoka Hasegawa, Hiromi Hongo, Tomomaya Yamamoto, Shen Zhao, Minqi, Yutaka Yamazaki, Norio Amizuka

Immunolocalization of Enzymes/Membrane Transporters Related to Bone Mineralization in the Metaphyses of the Long Bones of Parathyroid-Hormone-Administered Mice Medicina (Kaunas). 2023 Jun 20;59(6):1179.

PMID: 37374382

**This antibody (previous batch) has been successfully used in ICC on Mouse:**

Tomomaya Yamamoto et al.

Comparative immunolocalization of tissue nonspecific alkaline phosphatase and ectonucleotide pyrophosphatase/phosphodiesterase 1 in murine bone

Journal of Oral Biosciences (2021), <https://doi.org/10.1016/j.job.2021.08.001>

PMID: 34391947

**This antibody (previous batch) has been successfully used in Western Blot and IHC:**

Lau WM, Doucet M, Stadel R, Huang D, Weber KL, Kominsky SL

Enpp1: a potential facilitator of breast cancer bone metastasis.

PLoS One. 2013 Jul 5;8(7):e66752.

PMID: 23861746

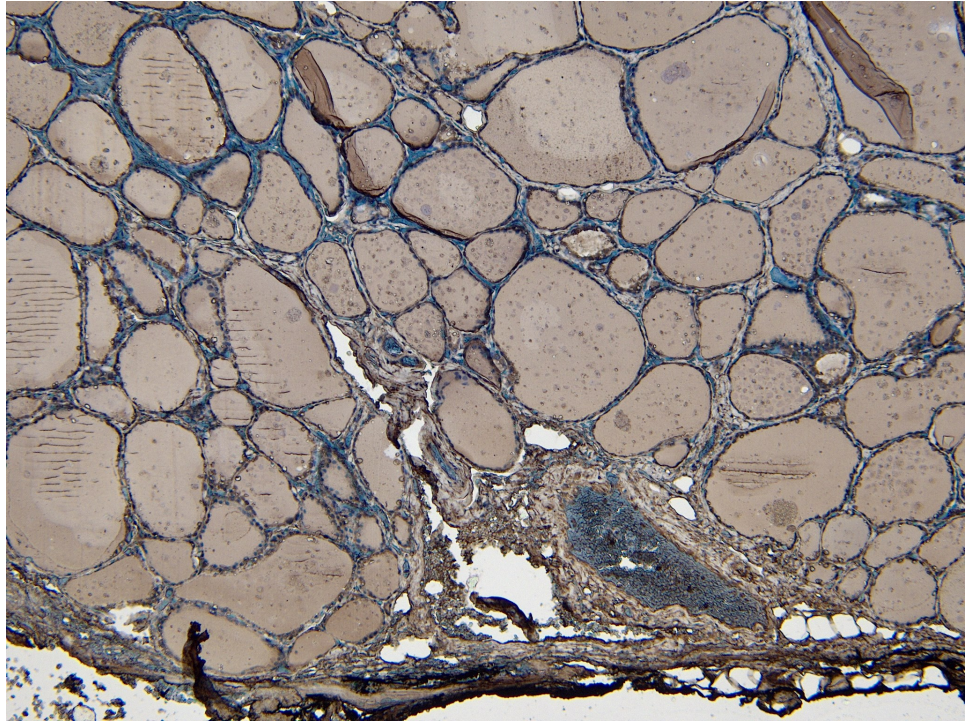
**This antibody (previous batch) has been successfully used in WB:**

Simão AM, Yadav MC, Narisawa S, Bolean M, Pizauro JM, Hoylaerts MF, Ciancaglini P, Millán JL.

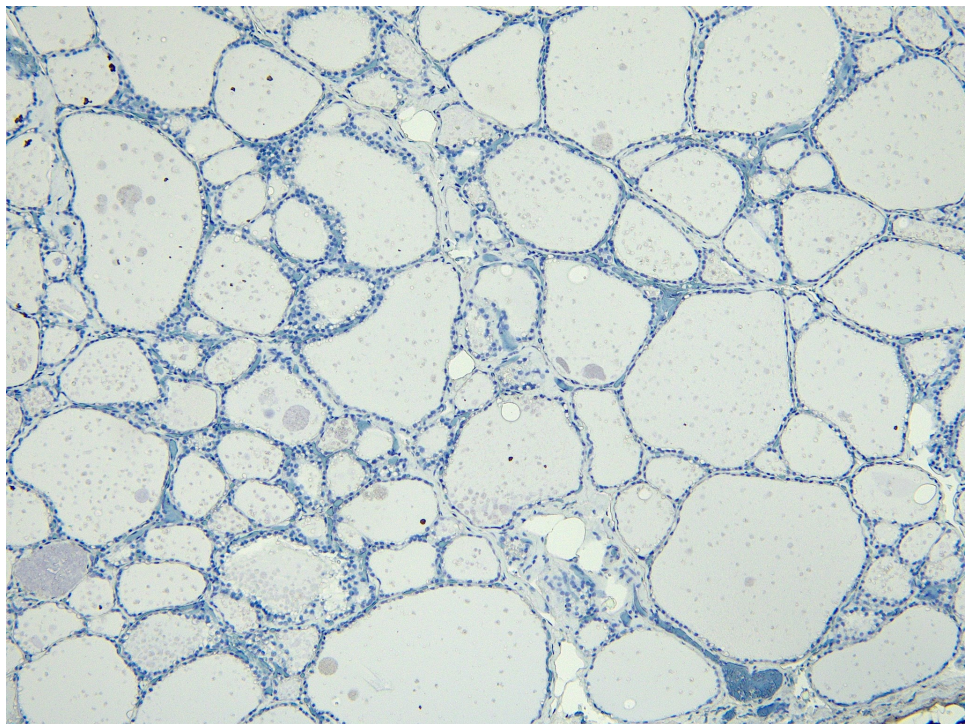
Proteoliposomes harboring alkaline phosphatase and nucleotide pyrophosphatase as matrix vesicle biomimetics.

J Biol Chem. 2010 Mar 5;285(10):7598-609.

PMID: 20048161



EB06948 (4µg/ml) staining of paraffin embedded Human Thyroid Gland. Heat induced antigen retrieval with citrate buffer Ph 6, HRP-staining.



EB06948 Negative Control showing staining of paraffin embedded Human Thyroid Gland, with no primary antibody.