

UK Office

Everest Biotech Ltd

Cherwell Innovation Centre
77 Heyford Park
Upper Heyford
Oxfordshire
OX25 5HD
UK

Enquiries:

info@everestbiotech.com

Sales:

sales@everestbiotech.com

Tech support:

support@everestbiotech.com

Tel: +44 (0)1869 238326

www.everestbiotech.com

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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

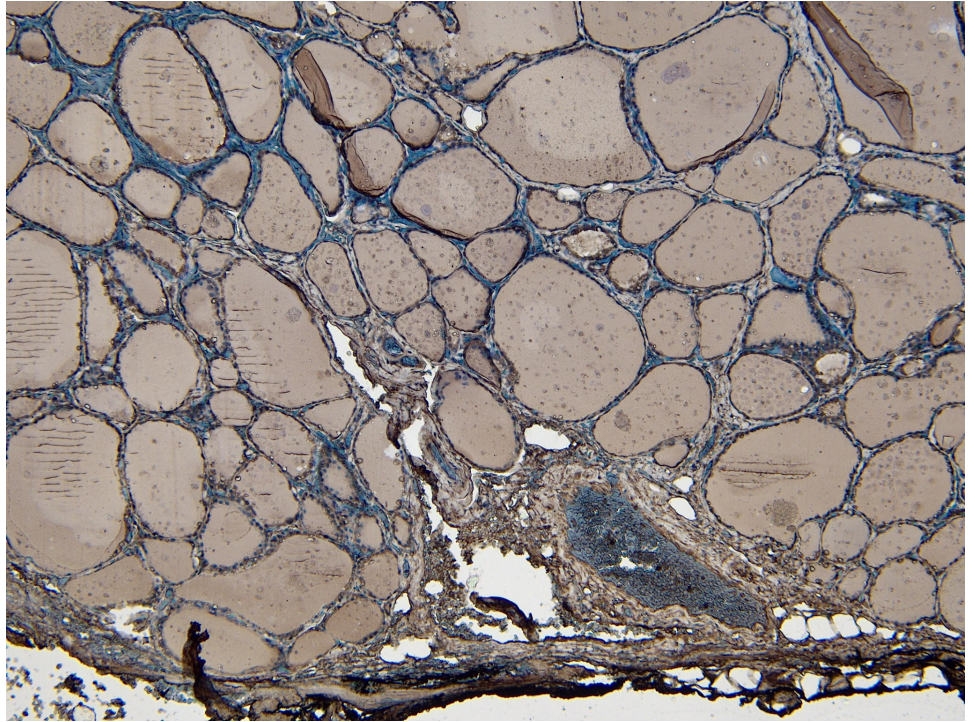
This antibody (previous batch) has been successfully used in WB:

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

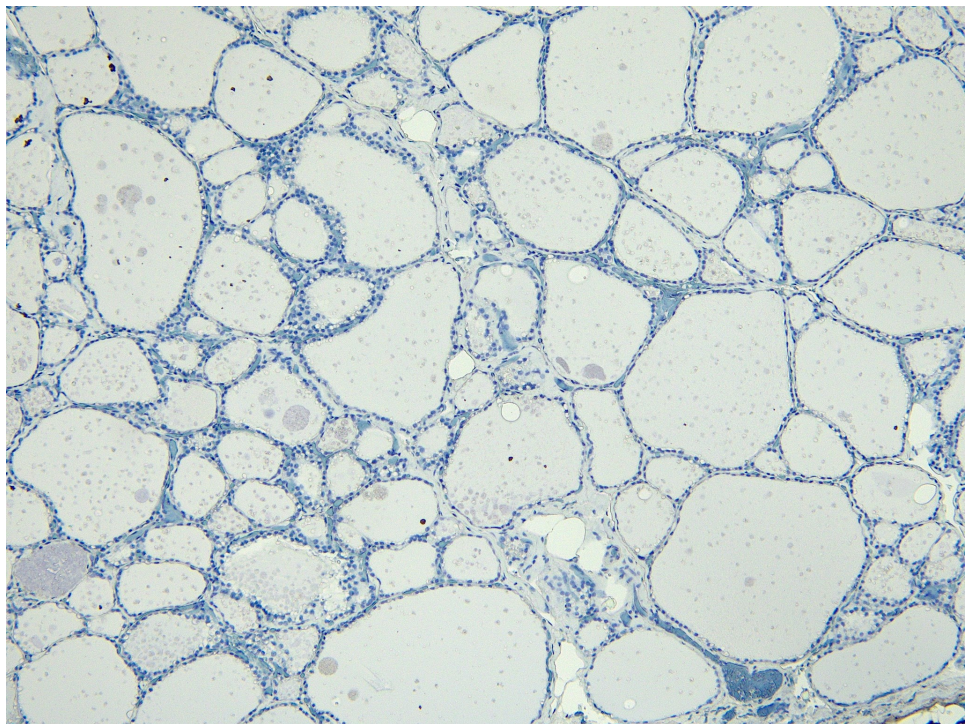
Proteoliposomes harboring alkaline phosphatase and nucleotide pyrophosphatase as matrix vesicle biomimetics.

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.