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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 0.5-1ug/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

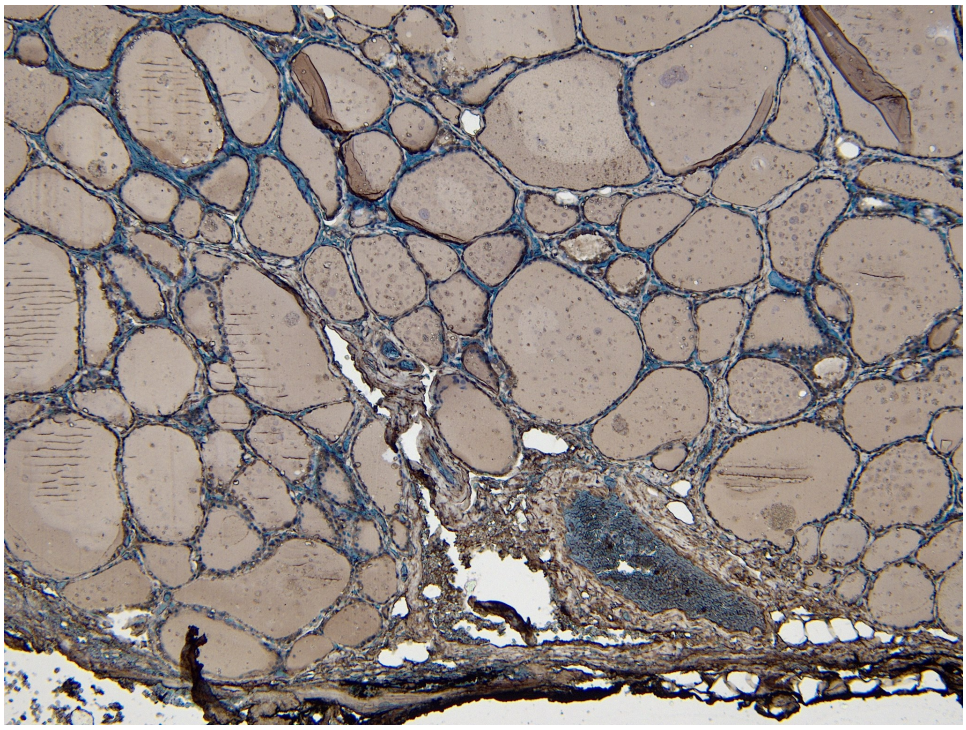
PMID: 34391947

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

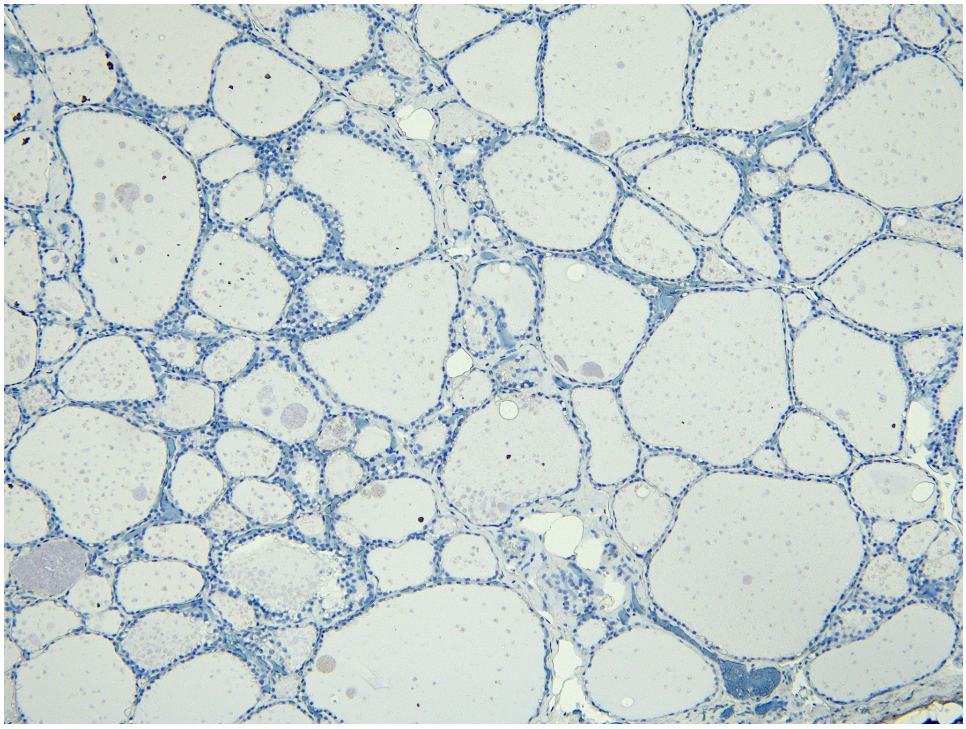
Lau WM, Doucet M, Stadel R, Huang D, Weber KL, Kominsky SL
Enpp1: a potential facilitator of breast cancer bone metastasis.
PLoS One. 2013 Jul 5;8(7):e66752.
PMID: 23861746

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.