

# Product Datasheet

## 5'-Nucleotidase/CD73 Antibody - BSA Free NBP1-85740

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-85740**

5'-Nucleotidase/CD73 Antibody - BSA Free

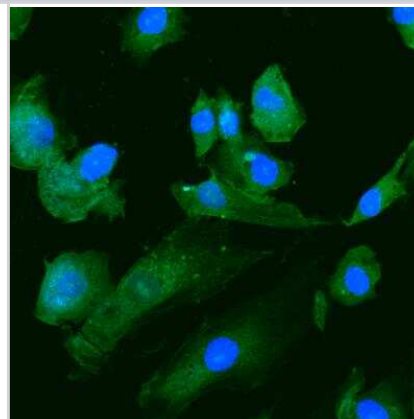
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	4907
Gene Symbol	NT5E
Species	Human, Porcine
Reactivity Notes	Porcine reactivity reported from a verified customer review.
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: EFDNGVEGLIEPLLKEAKFPILSANIKAKGPLASQISGLYLPYKVLVPGDEVVGIV GYTSKETPFLSNPGTNLVFEDEITALQPEVDKCLKTLNVNKKIILGHSGFEMDKLIA QK

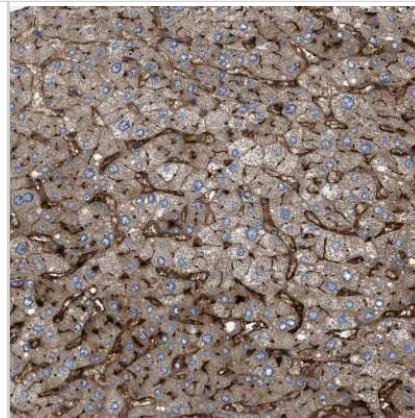
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, ELISA Reported in scientific literature (PMID:33488292)., Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization, Use PFA/Triton X-100.

**Images**

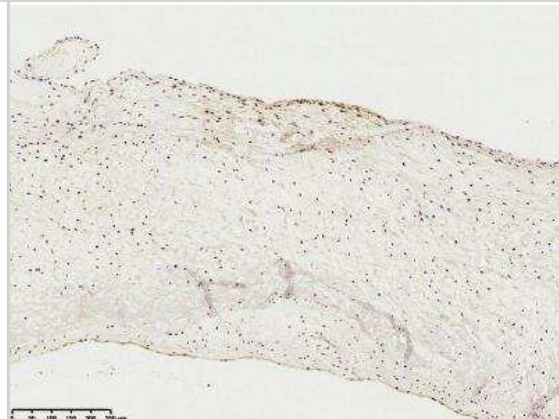
Immunocytochemistry/Immunofluorescence: 5'-Nucleotidase/CD73 Antibody [NBP1-85740] - Staining for human aortic valve endothelial cells. Image from a verified customer review.



Immunohistochemistry-Paraffin: 5'-Nucleotidase/CD73 Antibody [NBP1-85740] - Staining of human liver shows strong membranous positivity in hepatocytes.



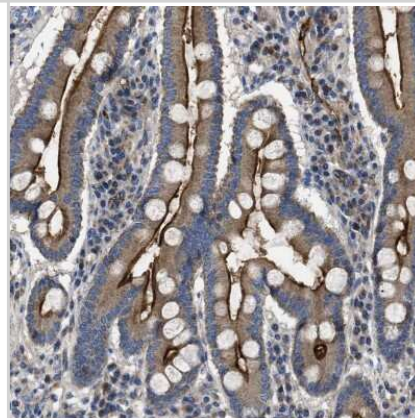
Immunohistochemistry: 5'-Nucleotidase/CD73 Antibody [NBP1-85740] - Staining of human aortic valve staining for CD73. Image from verified customer review.



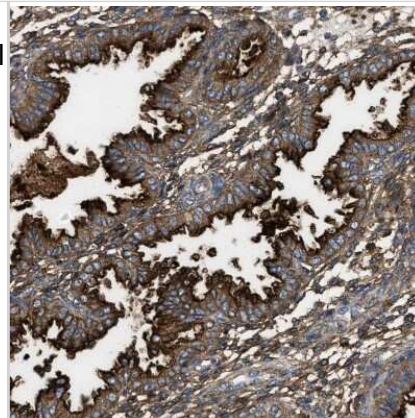
Immunohistochemistry: 5'-Nucleotidase/CD73 Antibody [NBP1-85740] - Staining for pig aortic valve. Image from verified customer review.



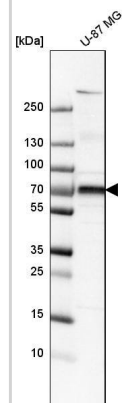
Immunohistochemistry-Paraffin: 5'-Nucleotidase/CD73 Antibody [NBP1-85740] - Staining of human duodenum shows strong positivity in apical membrane in glandular cells.



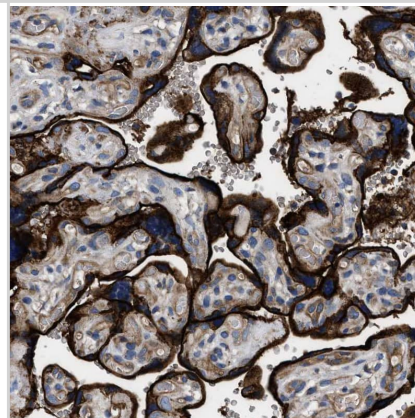
Immunohistochemistry-Paraffin: 5'-Nucleotidase/CD73 Antibody [NBP1-85740] - Staining of human endometrium shows strong positivity in apical membrane in glandular cells.



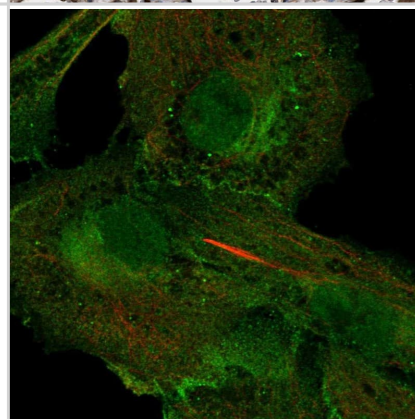
Analysis in human cell line U-87 MG.



Staining of human placenta shows very strong positivity in apical membrane in trophoblastic cells.



Staining of human cell line LHCN-M2 shows localization to nucleoplasm, plasma membrane & cytosol.



## Publications

Ahmed MS, Farag AB, Boys IN et al. FDA approved drugs with antiviral activity against SARS-CoV-2: From structure-based repurposing to host-specific mechanisms *Biomedicine & Pharmacotherapy* 2023-06-01 [PMID: 37068330]

Monguio-Tortajada M, Prat-Vidal C, Martinez-Falguera D et al. Acellular cardiac scaffolds enriched with MSC-derived extracellular vesicles limit ventricular remodelling and exert local and systemic immunomodulation in a myocardial infarction porcine model *Theranostics* 2022-06-06 [PMID: 35832072] (FLOW, IHC-Fr, Porcine)

Pang L, Ng KT, Liu J et al. Plasmacytoid dendritic cells recruited by HIF-1 alpha /eADO/ADORA1 signaling induce immunosuppression in hepatocellular carcinoma *Cancer letters* 2021-09-16 [PMID: 34536555] (IF/IHC, Human)

MuNOz-Godlnez R, de Lourdes Mora-Garcla M, Weiss-Steider B et al. Detection of CD39 and a Highly Glycosylated Isoform of Soluble CD73 in the Plasma of Patients with Cervical Cancer: Correlation with Disease Progression Mediators of Inflammation 2020-12-07 [PMID: 33488292] (ELISA, WB, Human)

### Details:

Platelet-free plasma from human blood underwent ELISA.

Gong W, Zhang S, Zong Y et al. HPV-16 Infection Is Associated with a High Content of CD39 and CD73 Ectonucleotidases in Cervical Samples from Patients with CIN-1 Mediators of Inflammation 2019-05-07 [PMID: 31205451] (IF/IHC, Human)

Calabrese G, Giuffrida R, Forte S et al. Human adipose-derived mesenchymal stem cells seeded into a collagen-hydroxyapatite scaffold promote bone augmentation after implantation in the mouse *Sci Rep* 2017-08-02 [PMID: 28769083] (ICC/IF, Human)

Bullen JW, Tchernyshyov I, Holewinski RJ et al. Protein kinase A-dependent phosphorylation stimulates the transcriptional activity of hypoxia-inducible factor 1 *Sci Signal* 2016-05-31 [PMID: 27245613] (WB, Human)

Thibaudin M, Chaix M, Boidot R et al. Human ectonucleotidase-expressing CD25<sup>high</sup> Th17 cells accumulate in breast cancer tumors and exert immunosuppressive functions. *Oncoimmunology* 2015-07-06 [PMID: 26942062] (WB)

Serra S, Horenstein AL, Vaisitti T et al. CD73-generated extracellular adenosine in chronic lymphocytic leukemia creates local conditions counteracting drug-induced cell death. *Blood* 2011-12-01 [PMID: 21998208]

D'Alimonte I, Nargi E, Zuccarini M et al. Potentiation of temozolomide antitumor effect by purine receptor ligands able to restrain the in vitro growth of human glioblastoma stem cells. *Purinergic Signal*. 2015-05-15 [PMID: 25976165] (WB, Human)

Alberton P, Dex S, Popov C et al. Loss of tenomodulin results in reduced self-renewal and augmented senescence of tendon stem/progenitor cells. *Stem Cells Dev*. 2014-10-28 [PMID: 25351164]

Snider Nt, Altshuler Pj, Wan S et al. Alternative splicing of human nT5E in cirrhosis and hepatocellular carcinoma produces a negative regulator of ecto-5'-nucleotidase (CD73). *Mol. Biol. Cell*. 2014-10-08 [PMID: 25298403]





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### **Products Related to NBP1-85740**

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NBP1-85740PEP	5'-Nucleotidase/CD73 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **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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