

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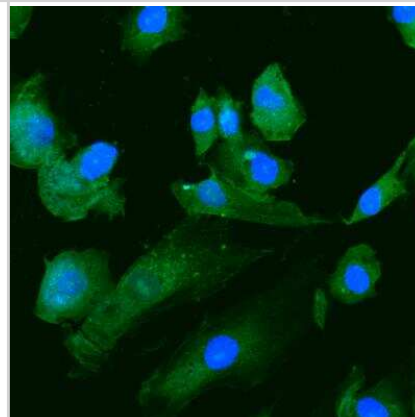
**NBP1-85740****5'-Nucleotidase/CD73 Antibody - BSA Free**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit 5'-Nucleotidase/CD73 Antibody - BSA Free (NBP1-85740) is a polyclonal antibody validated for use in IHC, WB, ELISA, Flow and ICC/IF. Anti-5'-Nucleotidase/CD73 Antibody: Cited in 12 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	4907
<b>Gene Symbol</b>	NT5E
<b>Species</b>	Human, Porcine
<b>Reactivity Notes</b>	Porcine reactivity reported from a verified customer review.
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: EFDNGVEGLIEPLLKEAKFPILSANIKAKGPLASQISGLYLPYKVLPVGDEVVGIV GYTSKETPFLSNPGTNLVFEDEITALQPEVDKLTNLNVNKIILGHSGFEMDKLIA QK
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	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
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization, Use PFA/Triton X-100.

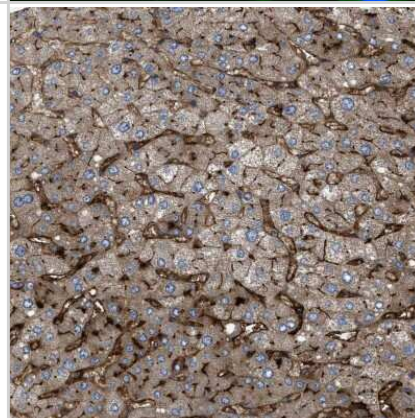


## Images

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



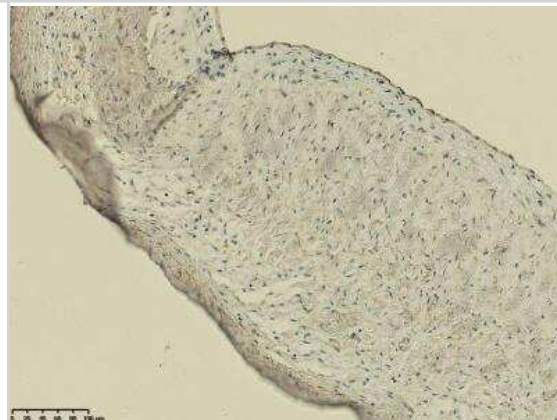
Immunohistochemistry-Paraffin: 5'-Nucleotidase/CD73 Antibody [NBP1-85740] - Staining of human liver shows strong membranous positivity in hepatocytes.



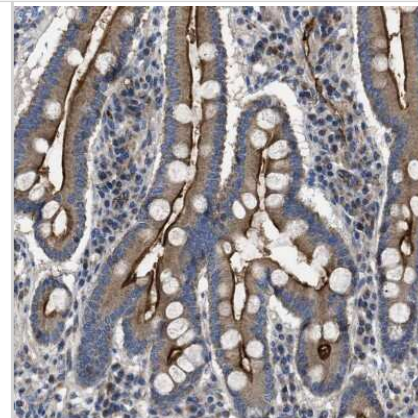
Immunohistochemistry: 5'-Nucleotidase/CD73 Antibody [NBP1-85740] - Staining of human aortic valve staining for CD73. Image from verified customer review.



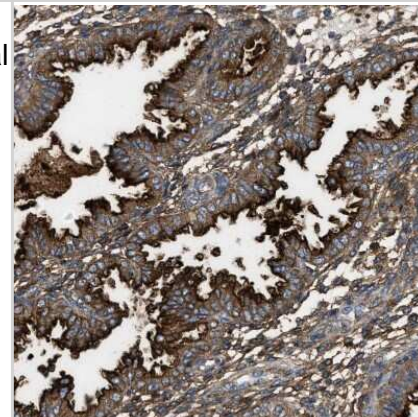
Immunohistochemistry: 5'-Nucleotidase/CD73 Antibody [NBP1-85740] - Staining for pig aortic valve. Image from verified customer review.



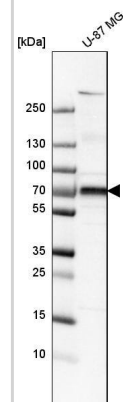
Immunohistochemistry-Paraffin: 5'-Nucleotidase/CD73 Antibody [NBP1-85740] - Staining of human duodenum shows strong positivity in apical membrane in glandular cells.



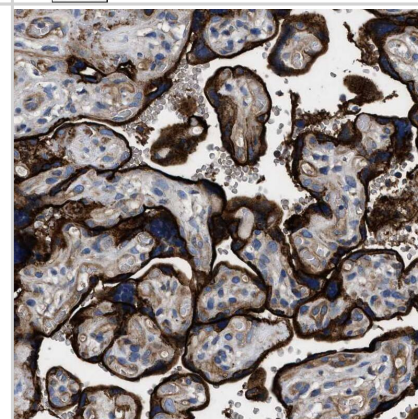
Immunohistochemistry-Paraffin: 5'-Nucleotidase/CD73 Antibody [NBP1-85740] - Staining of human endometrium shows strong positivity in apical membrane in glandular cells.



Analysis in human cell line U-87 MG.

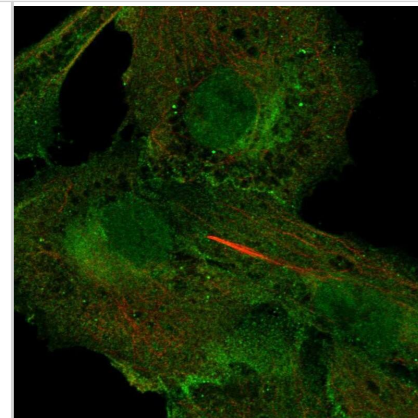


Staining of human placenta shows very strong positivity in apical membrane in trophoblastic cells.





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-Garcia 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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General: novus@novusbio.com

### **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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