

# Product Datasheet

## 5'-Nucleotidase/CD73 Antibody (AD2) - BSA Free NBP2-48480

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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**NBP2-48480****5'-Nucleotidase/CD73 Antibody (AD2) - BSA Free**

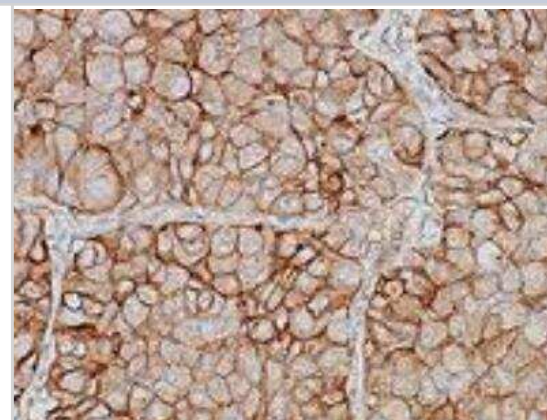
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	AD2
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse 5'-Nucleotidase/CD73 Antibody (AD2) - BSA Free (NBP2-48480) is a monoclonal antibody validated for use in IHC and Flow. Anti-5'-Nucleotidase/CD73 Antibody: Cited in 15 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	4907
<b>Gene Symbol</b>	NT5E
<b>Species</b>	Human
<b>Immunogen</b>	Human CD73 [UniProt# P21589]

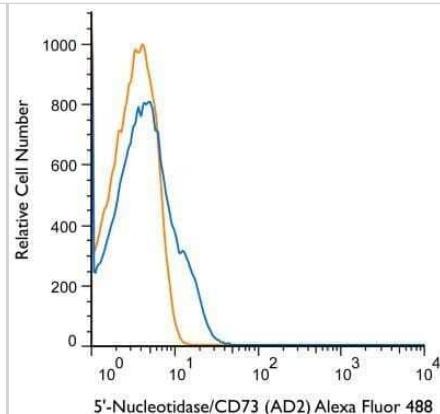
<b>Product Application Details</b>	
<b>Applications</b>	Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Cell Surface), Immunohistochemistry, Immunohistochemistry-Frozen
<b>Recommended Dilutions</b>	Flow Cytometry 1:500, Immunohistochemistry, Immunohistochemistry-Paraffin reported by customer review, Immunohistochemistry-Frozen reported in scientific literature (PMID 1989648), Flow (Cell Surface)

**Images**

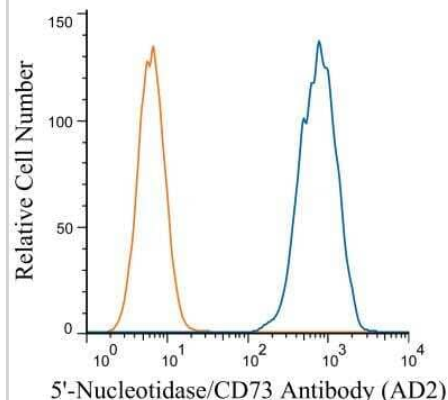
Immunohistochemistry-Paraffin: 5'-Nucleotidase/CD73 Antibody (AD2) [NBP2-48480] - Analysis of 5'-Nucleotidase/CD73 antibody on Human lung tissue. PFA fixed paraffin-embedded sections. Sections were incubated with the primary antibody overnight in 4C (1:200 dilution). Image from verified customer review.



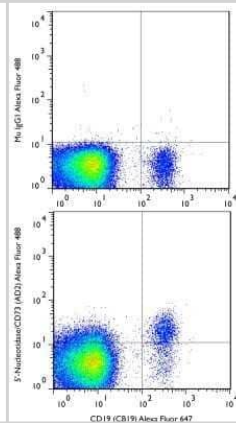
**Flow Cytometry: 5'-Nucleotidase/CD73 Antibody (AD2) [NBP2-48480] -** A surface stain was performed on CD3+ human peripheral blood lymphocytes with CD73 (AD2) antibody NBP2-48480AF488 and a matched isotype control NBP2-27287AF488. Cells were incubated in an antibody dilution of 10 ug/mL for 20 minutes at room temperature. A co-stain was performed with NBP2-25186PCP.



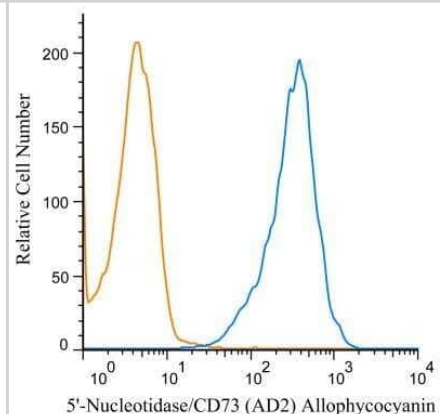
**Flow (Cell Surface): 5'-Nucleotidase/CD73 Antibody (AD2) [NBP2-48480] -** A surface stain was performed on U87 MG cells with 5'-Nucleotidase/CD73 Antibody (AD2) antibody NBP2-48480 (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 1 ug/mL for 20 minutes at room temperature, followed by Dylight488-conjugated anti-mouse secondary antibody.



**Flow (Cell Surface): 5'-Nucleotidase/CD73 Antibody (AD2) [NBP2-48480] -** A surface stain was performed on human peripheral blood lymphocytes with CD73 (AD2) antibody NBP2-48480AF488 and a matched isotype control NBP2-27287AF488. Cells were incubated in an antibody dilution of 5 ug/mL for 20 minutes at room temperature. A co-stain was performed with NBP2-25196AF647.



**Flow (Cell Surface): 5'-Nucleotidase/CD73 Antibody (AD2) [NBP2-48480] -** A cell surface stain was performed on U87MG cells with NBP2-48480APC (blue) and a matched isotype control NBP2-27287APC (orange). Cells were incubated in an antibody dilution of 0.5 ug/mL for 20 minutes at room temperature. Both antibodies were conjugated to Allophycocyanin. Image using the Allophycocyanin form of this antibody.



## Publications

Samanta D, Park Y, Ni X et al. Chemotherapy induces enrichment of CD47+/CD73+/PDL1+ immune evasive triple-negative breast cancer cells Proc. Natl. Acad. Sci. U.S.A. 2018-01-24 [PMID: 29367423] (FLOW, Human)

### Details:

This citation used the Alexa Fluor 488 form of this antibody

Fend F, Nachbar D, Oberwasserlechner F et al. Phenotype and topography of human thymic B cells. An immunohistologic study. Virchows Arch B Cell Pathol Incl Mol Pathol. 1991-01-01 [PMID: 1683054] (Human)

Thomson LF, Ruedi JM, Glass A et al. Production and characterization of monoclonal antibodies to the glycosyl phosphatidylinositol-anchored lymphocyte differentiation antigen ecto-5'-nucleotidase (CD73). Tissue Antigens. 1990-01-01 [PMID: 2137649]

Linsley PS, Clark EA, Ledbetter JA. T-cell antigen CD28 mediates adhesion with B cells by interacting with activation antigen B7/BB-1. Proc Natl Acad Sci U S A. 1990-07-01 [PMID: 2164219]

Mulligan SP. Human B cells: differentiation and neoplasia. Leuk Lymphoma. 1990-01-01 [PMID: 20394556]

Sidorenko SP, Clark EA. Characterization of a cell surface glycoprotein IPO-3, expressed on activated human B and T lymphocytes. J Immunol. 1993-11-01 [PMID: 8409422]

Borrione P, Peola S, Mariani S et al. CD38 stimulation lowers the activation threshold and enhances the alloreactivity of cord blood T cells by activating the phosphatidylinositol 3-kinase pathway and inducing CD73 expression. J Immunol. 1999-05-15 [PMID: 10229870] (FLOW, Human)

Nakamura T, Kubagawa H, Ohno T, Cooper MD. Characterization of an IgM Fc-binding receptor on human T cells. J Immunol. 1993-12-15 [PMID: 8258701] (FLOW, Human)

Resta R, Hooker SW, Laurent AB et al. Insights into thymic purine metabolism and adenosine deaminase deficiency revealed by transgenic mice overexpressing ecto-5'-nucleotidase (CD73). J Clin Invest. 1997-02-15 [PMID: 9045870] (FLOW, Human)

### Details:

5'-Nucleotidase/CD73 antibody (clone AD2) was used for immunofluorescence staining /FLOW analysis of single cell suspensions of thymocytes, splenocytes, lymph node cells, and peripheral blood mononuclear cells from Ick(NT) transgenic mouse (mice overexpressing 5'-NT/CD73 in cortical thymocytes under the control of the Ick proximal promoter).

Clark EA, Lanier LL. Report from Vienna: in search of all surface molecules expressed on human leukocytes. J Clin Immunol. 1989-07-01 [PMID: 2788657]

Patel DD, Whichard LP, Radcliff G et al. Characterization of human thymic epithelial cell surface antigens: phenotypic similarity of thymic epithelial cells to epidermal keratinocytes. J Clin Immunol. 1995-03-01 [PMID: 7559912] (FLOW, Human)

Gutensohn W, Resta R, Misumi Y et al. Ecto-5'-nucleotidase activity is not required for T cell activation through CD73. Cell Immunol. 1995-04-01 [PMID: 7697732] (FLOW, Human)

### Details:

5'-Nucleotidase/CD73 antibody (clone AD2) was used for FLOW analysis of Jurkat cells transfectants - Control, Empty vector, Wild type CD73, mutant CD73 His92 to Ala , and mutant CD73 His194 to Ala (Figure 1).

More publications at <http://www.novusbio.com/NBP2-48480>





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### **Products Related to NBP2-48480**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-48480AF488	5'-Nucleotidase/CD73 Antibody (AD2) [Alexa Fluor® 488]

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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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