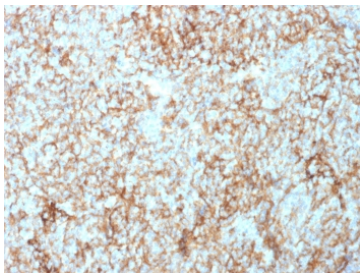
CD73 Antibody / NT5E [clone NT5E/2503] (V7570)

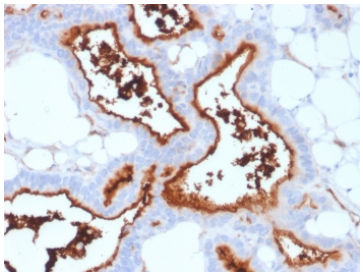
Catalog No.	Formulation	Size
V7570-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7570-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7570SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7570IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

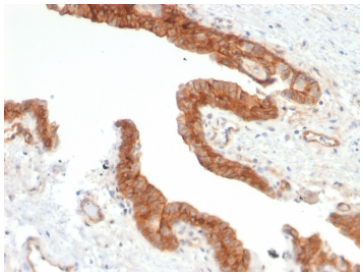
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	NT5E/2503
Purity	Protein G affinity chromatography
UniProt	P21589
Localization	Cell surface, cytoplasmic
Applications	Western blot: 1-2ug/ml Flow cytometry: 1-2ug/10^6 cells Immunofluorescence: 1-2ug/ml Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This CD73 antibody is available for research use only.



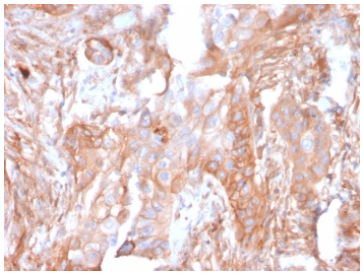
IHC staining of FFPE human tonsil tissue with CD73 antibody (clone NT5E/2503). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



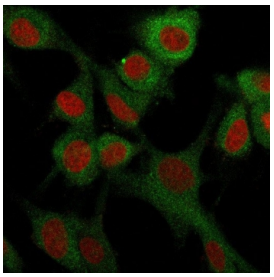
IHC staining of FFPE human lung carcinoma with CD73 antibody (clone NT5E/2503). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



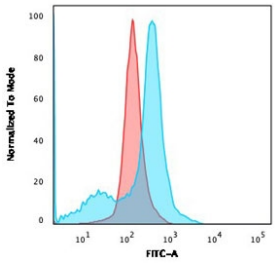
IHC staining of FFPE human prostate carcinoma with CD73 antibody (clone NT5E/2503). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



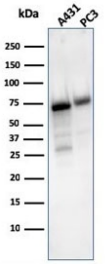
IHC staining of FFPE human colon carcinoma with CD73 antibody (clone NT5E/2503). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



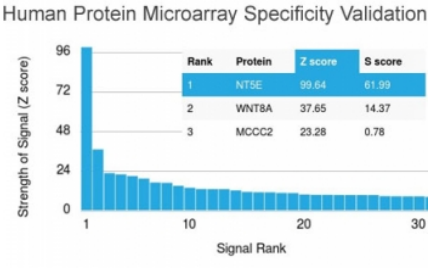
Immunofluorescence staining of human U-87 MG cells with CD73 antibody (green, clone NT5E/2503) and Reddot nuclear stain (red).



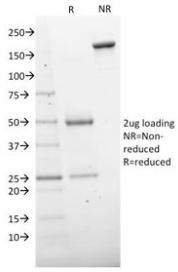
Flow cytometry testing of human U-87 MG cells with CD73 antibody (clone NT5E/2503); Red=isotype control, Blue= CD73 antibody.



Western blot testing of human 1) A431 and 2) PC-3 cell lysate with CD73 antibody (clone NT5E/2503). Predicted molecular weight: 60-70 kDa.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD73 antibody (clone NT5E/2503). These results demonstrate the foremost specificity of the NT5E/2503 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free CD73 antibody (clone NT5E/2503) as confirmation of integrity and purity.

Description

CD73 (also designated ecto-5'-nucleotidase, E5NT, NT, NT5, NTE, eN and eNT) is a glycosyl-phosphatidylinositol (GPI)-anchored adhesion protein that catalyzes the dephosphorylation of extracellular purine and pyrimidine nucleotides to their corresponding bioactive nucleosides. CD73 is a dimer of two identical subunits that depends on GPI to link with the external face of the plasma membrane. Similar to other GPI-anchored proteins, CD73 mediates co-stimulatory signals in T cell activation. CD73 has few structural variants, yet elicits diverse biological function through differential regulation in endothelial cells (EC), subpopulations of B and T cells, germinal center follicular dendritic cells and on thymic medullary reticular fibroblasts. For example, IgG mediated neutralization of CD73 interferes with lymphocyte adhesion to EC, and blocks aggregation of germinal center B cells and follicular dendritic cells. Furthermore, IgG-mediated targeting of lymphocyte CD73, but not of endothelial cell CD73, causes shedding of CD73 and tyrosine phosphorylation of proteins.

Application Notes

Optimal dilution of the CD73 antibody should be determined by the researcher.
1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A recombinant full length human NT5E protein was used as the immunogen for the CD73 antibody.

Storage

Store the CD73 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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