

Mouse anti-Human CD73 Monoclonal Antibody | anti-CD73 antibody

CD73 (Immuno-Oncology Target)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA23927	Mouse	Human	Western Blot, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

CD73; Monoclonal Antibody; CD73 (Immuno-Oncology Target); 5' NT; 5' nucleotidase (CD73); 5' nucleotidase precursor; 5' nucleotidase; ecto; ecto (CD73); 5'-NT; 5'-nucleotidase; 5NTD_HUMAN; CD73 antigen; E5NT; Ecto 5' nucleotidase; Ecto-5'-nucleotidase; eN; eNT; NT; NT5; NT5E; NTE; Purine 5 Prime Nucleotidase; anti-CD73 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	NT5E/2505
Specificity	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.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	574
Applicable Applications for anti-CD73 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	WB: 1-2ug/ml FC/FACS: 1-2ug/million cells IF: 1-2ug/ml Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT) (Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes)
Positive Control	Human tonsil, prostate or lung carcinoma.
Immunogen	Recombinant full length human NT5E protein
Cellular Localization	Cell Surface
Hu-chromosome Location	6q14.3

Preparation and Storage

Antibody with azide: store at 2 to 8 degree C.
Antibody without azide: store at -20 to -80 degree C.
Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using CD73 Mouse Recombinant Monoclonal Antibody (NT5E/2505) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAB) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAB to its intended target. A MAB is considered to specific to its intended target, if the MAB has an S-score of at least 2.5. For example, if a MAB binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAB to protein X is equal to 29.



SDS-PAGE

SDS-PAGE Analysis Purified CD73 Mouse Monoclonal Antibody (NT5E/2505). Confirmation of Purity and Integrity of Antibody.



WB (Western Blot)

Western Blot Analysis of A431 and PC-3 cell lysate using CD73 Mouse Monoclonal Antibody (NT5E/2505).



FCM (Flow Cytometry)

Flow Cytometric Analysis of U87MG cells using CD73 Mouse Monoclonal Antibody (NT5E/2505) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



IF (Immunofluorescence)

Immunofluorescence staining of U87MG cells using CD73 Mouse Monoclonal Antibody (NT5E/2505) followed by goat anti-Mouse IgG conjugated to CF488 (green). Membrane stained with Phalloidin (Red).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with CD73 Mouse Monoclonal Antibody (NT5E/2505).

ADDITIONAL INFORMATION

References

Yamashita, Y., et al. 1998. Eur. J. Immunol. 28: 2981-2990.

NCBI AND UNIPROT INFORMATION

NCBI GI #	112825
NCBI GeneID	4907
UniProt Accession #	P21589
Molecular Weight	71kDa
NCBI Official Full Name	5'-nucleotidase
NCBI Official Synonym Full Names	5'-nucleotidase ecto
NCBI Official Symbol	NT5E
NCBI Official Synonym Symbols	NT; eN; NT5; NTE; eNT; CD73; E5NT; CALJA
NCBI Protein Information	5'-nucleotidase

UniProt Protein Name	5'-nucleotidase
UniProt Gene Name	NT5E
UniProt Synonym Gene Names	NT5; NTE; 5'-NT
UniProt Entry Name	5NTD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd73-antibody-clone-nt5e-2505-western-blot-flow-cytometry-immunofluorescence-immunohistochemistry-elisa/23927>