Datasheet for ABIN6940229

anti-CD73 antibody

10 Images

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Overview

Quantity:	100 µg
Target:	CD73 (NT5E)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD73 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), ELISA, Immunofluorescence (IF), Staining Methods (StM), Coating (Coat)

Product Details

Immunogen:	Recombinant full length human NT5E protein
Clone:	NT5E-2545
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	CD73 (NT5E)
Alternative Name:	NT5E (NT5E Products)
Background:	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.

Target Details

	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.
Molecular Weight:	71kDa
Gene ID:	4907
UniProt:	P21589
Pathways:	Synaptic Membrane, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	Positive Control: Tonsil, Prostate or Lung Carcinoma. Known Application: ELISA (For coating, order antibody without BSA), Western Blot (1-2 µg/mL), Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 min at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

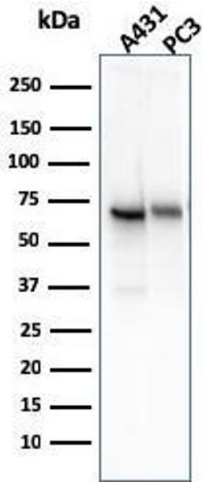
Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

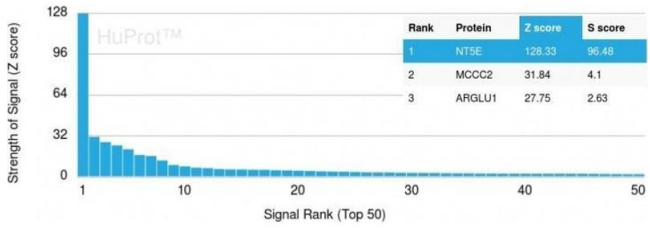
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images



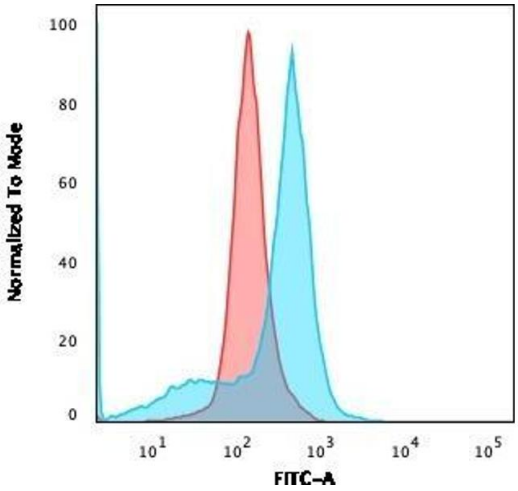
Western Blotting

Image 1. Western Blot Analysis of A431 and PC-3 cell lysate using CD73 Mouse Monoclonal Antibody (NT5E/2545).



Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using CD73 Mouse Recombinant Monoclonal Antibody (NT5E/2545) 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 HuProtTM array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) 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.



Flow Cytometry

Image 3. Flow Cytometric Analysis of U87MG cells using CD73 Mouse Monoclonal Antibody (NT5E/2545) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

Please check the product details page for more images. Overall 10 images are available for ABIN6940229.