CD73 (Immuno-Oncology Target) Antibody

Mouse Monoclonal Antibody [Clone NT5E/2505]

Catalog No	Format	Size
4907-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
4907-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
4907-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

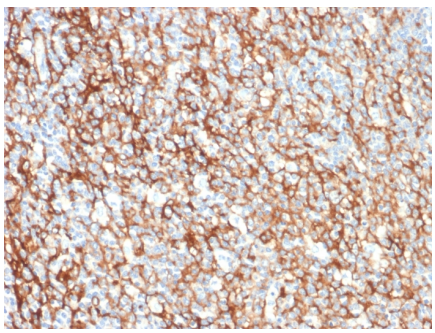
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

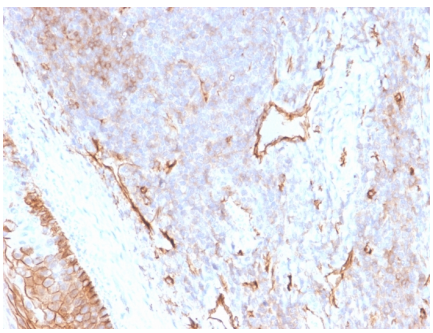
Clone	NT5E/2505
Gene Name	NT5E
Immunogen	Recombinant full length human NT5E protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	71kDa
Cellular Localization	Cell membrane
Species Reactivity	Human
Positive Control	Human tonsil, Prostate or Lung Carcinoma, Human Liver, Human Kidney, Human Skin, Human Spleen, HepG2

**Optimal dilution for a specific application should be determined.*

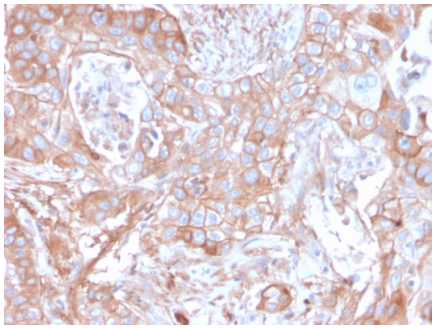
Product Images for CD73 (Immuno-Oncology Target) Antibody



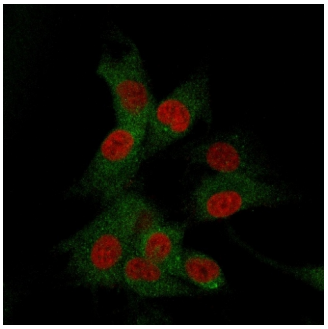
Formalin-fixed, paraffin-embedded human Tonsil stained with CD73 Mouse Monoclonal Antibody (NT5E/2505).



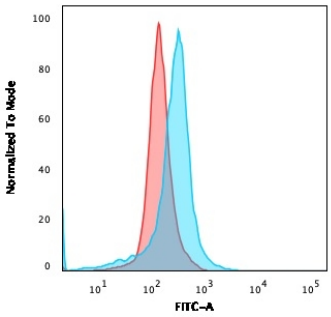
Formalin-fixed, paraffin-embedded human Tonsil stained with CD73 Mouse Monoclonal Antibody (NT5E/2505).



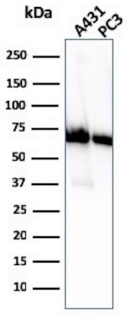
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with CD73 Mouse Monoclonal Antibody (NT5E/2505).



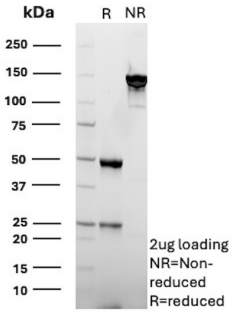
Immunofluorescence staining of U87MG cells using CD73 Mouse Monoclonal Antibody (NT5E/2505) followed by goat anti-Mouse IgG conjugated to CF488 (green). Membrane stained with Phalloidin (Red).



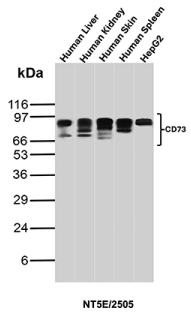
Flow Cytometric Analysis of U87MG cells using CD73 Mouse Monoclonal Antibody (NT5E/2505) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



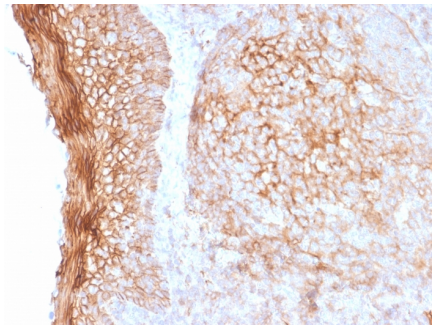
Western blot analysis of A-431 and PC3 cell lysate using CD73 Mouse Monoclonal Antibody (NT5E/2505).



SDS-PAGE Analysis of Purified CD74 Mouse Monoclonal Antibody (NT5E/2505). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of Human Liver, Human Kidney, Human Skin, Human Spleen, and HepG2 lysates using CD73 Mouse Monoclonal Antibody (NT5E/2505).



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

Specificity & Comments

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.

Supplied As

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.

Storage and Stability

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.

Research Areas

B Cell Markers, Immune checkpoint, Infectious Disease, Neuroscience

Limitations and Warranty