9853 Pacific Heights Blvd.
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36-2879: Anti-CD73 (Immuno-Oncology Target) Monoclonal Antibody(Clone: NT5E/2646)

Clonality :	Monoclonal
Clone Name :	NT5E/2646
Application :	ELISA,FACS,IF,WB,IHC
Reactivity :	Human
Gene :	NT5E
Gene ID :	4907
Uniprot ID :	P21589
Alternative Name :	5' NT; 5' nucleotidase (CD73); 5' nucleotidase precursor; 5' nucleotidase, ecto; 5' nucleotidase, ecto (CD73); E5NT; Ecto 5' nucleotidase; Ecto-5'-nucleotidase; eN; eNT; NT; NT5; NT5E; NTE; Purine 5 Prime Nucleotidase
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant full-length human NT5E protein

Description

CD73 is a membrane-bound extracellular enzyme overexpressed in several cancer types. Its expression has been linked to poor prognosis in melanoma, colorectal, gastric, triple negative breast cancer, and to a pro-metastatic phenotype in prostate cancer. Together with CD39, it plays a major role in promoting immunosuppression throÂµgh the pathway degrading adenosine triphosphate (ATP) into adenosine. Within the tumor microenvironment, ATP promotes immune cell-mediated killing of cancer cells. In contrast, adenosine accumulation causes immune suppression, dysregulation of immune cell infiltrates and stimulates angiogenesis resulting in tumor spreading. CD73 is active on the last step of the degradation pathway, where it is the enzyme that actually degrades AMP into adenosine. CD73-blockade promotes anti-tumor immunity by reducing adenosine accumulation. Accordingly, anti-CD73 mAbs stimulate anti-tumor immunity and reduce tumor metastasis in Mouse tumor models, and could enhance the efficacy of treatment with anti-PD1 or anti-CTLA4 antibodies.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	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.

Application Note

ELISA (For coating, order antibody without BSA); Flow Cytometry (1-2ug/million cells in 0.1ml);,Immunofluorescence (1-2ug/ml); Western Blot (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),

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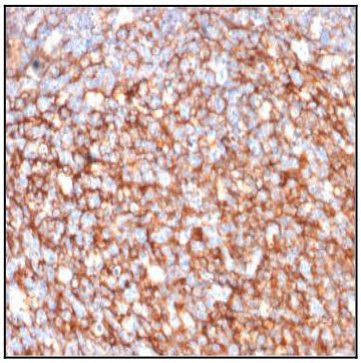


Fig. 1: Formalin-fixed, paraffin-embedded human Tonsil stained with CD73 Mouse Monoclonal Antibody (NT5E/2646).

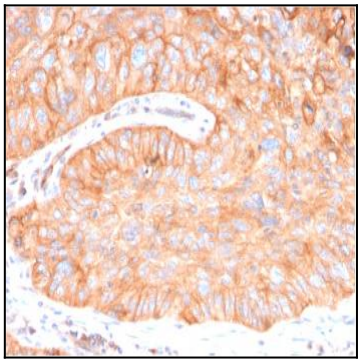


Fig. 2: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with CD73 Mouse Monoclonal Antibody (NT5E/2646).

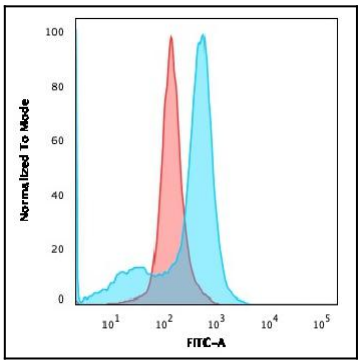


Fig. 3: Flow Cytometric Analysis of U87MG cells using CD73 Mouse Monoclonal Antibody (NT5E/2646) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

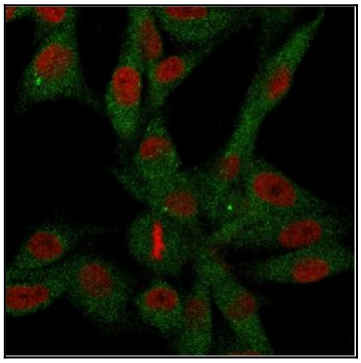


Fig. 4: Immunofluorescence staining of U87MG cells using CD73 Mouse Monoclonal Antibody (NT5E/2646) followed by goat anti-Mouse IgG conjµgated to CF488 (green). Membrane stained with Phalloidin (Red).

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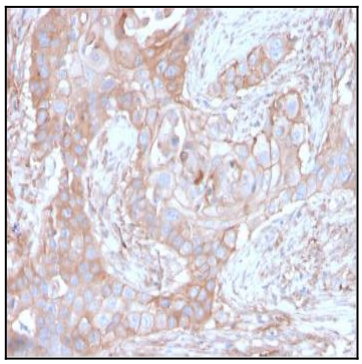


Fig. 5: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with CD73 Mouse Monoclonal Antibody (NT5E/2646).

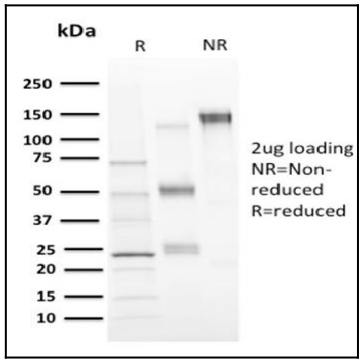


Fig. 6: SDS-PAGE Analysis Purified CD73 Mouse Monoclonal Antibody (NT5E/2646). Confirmation of Integrity and Purity of Antibody.

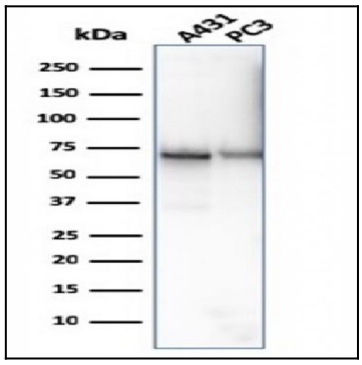


Fig. 7: Western Blot Analysis of A431 and PC-3 cell lysate using Purified CD73 Mouse Monoclonal Antibody (NT5E/2646).

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