

Product Datasheet

NT5E Antibody (Biotin) (orb750881)

Catalog Number	orb750881
Category	Antibodies
Description	Mouse monoclonal antibody against NT5E conjugated to Biotin
Target	NT5E
Clonality	Monoclonal
Species/Host	Mouse
Isotype	IgG1
Conjugation	Biotin
Reactivity	Human
Form/Appearance	Antibody purified from Bioreactor Concentrate by Protein A/G and conjugated to Biotin. Prepared in 10mM PBS with 0.05% rAlbumin and 0.05% azide.
Concentration	Purified Ab conjugated to Biotin
Buffer/Preservatives	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% rAlbumin & 0.05% azide. Also available WITHOUT rAlbumin & azide at 1.0mg/ml.
Purification	Protein G
Immunogen	Recombinant full-length human NT5E protein
UniProt ID	P21589
MW	71kDa

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Tested applications	ELISA, FC, IF, IHC, WB
Dilution range	ELISA (For coating, order antibody without BSA);Flow Cytometry (2-4ug/million cells in 0.1ml);,Immunofluorescence (2-4ug/ml); Western Blot (2-4ug/ml); ,Immunohistochemistry (Formalin-fixed) (2-4ug/ml for 30 minutes 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),Optimal dilution for a specific application should be determined.
Application notes	Positive Control: A431, U87MG or PC-3 cells. Human tonsil, prostate or lung carcinoma.
Specificity	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 through 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.
Clone Number	NT5E/2646
Expression System	Bioreactor
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Entrez	4907
Expiration Date	12 months from date of receipt.

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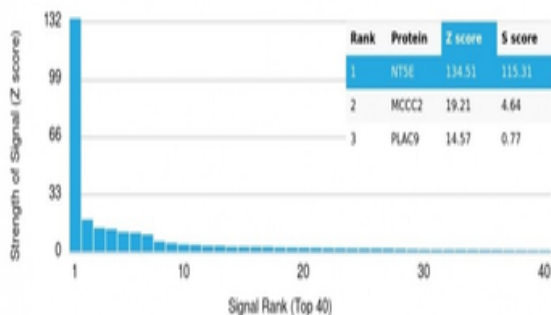
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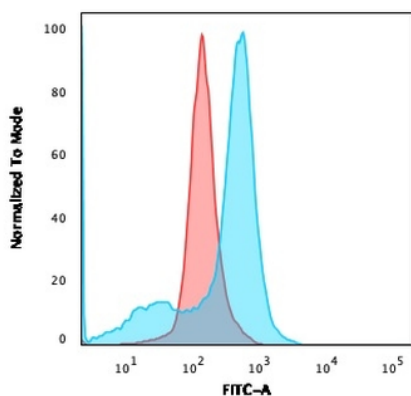
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Analysis of Protein Array containing more than 19000 full-length human proteins using CD73-Monospecific Mouse Monoclonal Antibody (CD73/2646). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination 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.



Flow Cytometric Analysis of U87MG cells using CD73 Mouse Monoclonal Antibody (NT5E/2646) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).

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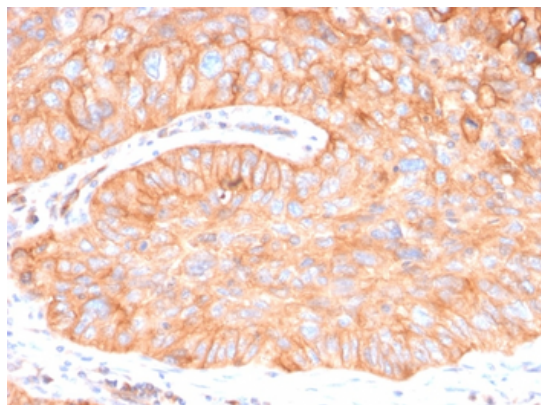
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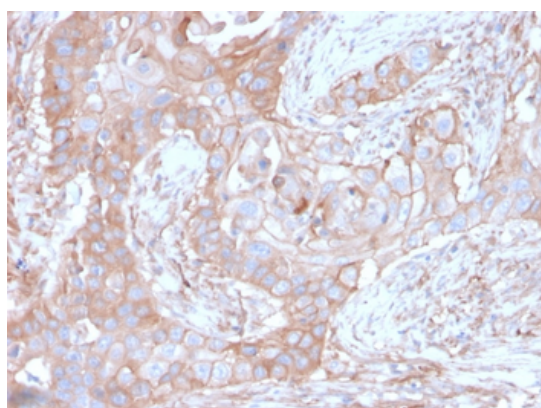
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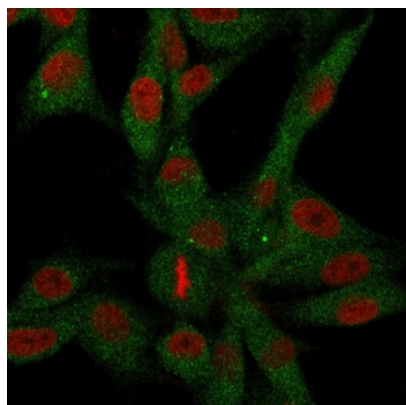
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Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with CD73 Mouse Monoclonal Antibody (NT5E/2646).



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



Immunofluorescence staining of U87MG cells using CD73 Mouse Monoclonal Antibody (NT5E/2646) followed by goat anti-mouse IgG-CF488 (green). Membrane stained with phalloidin (red).

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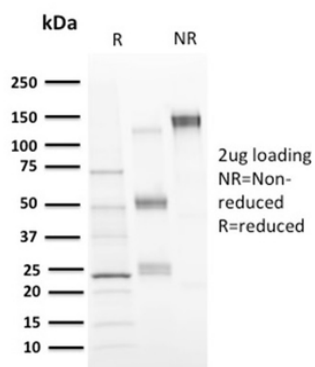
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SDS-PAGE Analysis Purified CD73 Mouse Monoclonal Antibody (NT5E/2646). Confirmation of Integrity and Purity of Antibody.

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