

## Anti-CD73 Antibody (4N525)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4N525
Purification:	Protein A

## Applications

Verified Activity:	<ol style="list-style-type: none"><li>1. Immunochemical staining of human NT5E in human spleen with rabbit monoclonal antibody (1:5000, formalin-fixed paraffin embedded sections).</li><li>2. Anti-NT5E rabbit monoclonal antibody at 1:500 dilution.<ul style="list-style-type: none"><li>-Lane A: NCI-H1299 Whole Cell Lysate.</li><li>-Lane B: HepG2 Whole Cell Lysate.</li><li>-Lane C: Hela Whole Cell lysate.</li></ul></li></ol> <ul style="list-style-type: none"><li>-Lysates/proteins at 30 µg per lane.</li><li>-Secondary<ul style="list-style-type: none"><li>-Goat Anti-Rabbit IgG H&amp;L (Dylight800) at 1/10000 dilution.</li><li>-Developed using the Odyssey technique.</li><li>-Performed under reducing conditions.</li><li>-Predicted band size:63 kDa.</li><li>-Observed band size:70 kDa(We are unsure as to the identity of these extra bands.)</li></ul></li></ul>
Application:	IHC-P,WB
Recommended	WB: 1:500-1:2000; IHC-P: 1:2500-1:10000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human CD73 / NT5E Protein (TMPY-01851)
Antigen Species:	Human
Synonyms:	CALJA;NTE;eNT;E5NT;CD73;eN;5'-nucleotidase, ecto (CD73);NT;NT5
Biology Area:	Phosphatases and Regulators

## Research Background

5'-nucleotidase, also known as NT5E, NTE, and CD73, is a cell membrane protein that belongs to the 5'-nucleotidase family. CD73 is a glycosylphosphatidylinositol (GPI) anchored purine salvage enzyme expressed on the surface of human T and B lymphocytes. CD73 catalyzes the conversion of purine and pyrimidine ribo- and deoxyribonucleoside monophosphates to the corresponding nucleosides. CD73 serves as a costimulatory molecule in activating T cells. CD73 generated adenosine functions in cell signaling in many physiologic systems, including intestinal epithelium,

ischemic myocardium, and cholinergic synapses. CD73 might mediate lymphocyte-stromal cell interactions or condition the local microenvironment to facilitate lymphocyte development and/or function. In CD73-depleted cells, surface levels of the leukocyte adhesion molecules ICAM-1, VCAM-1, and E-selectin increase. CD73 produces extracellular adenosine, which then acts on G protein-coupled purinergic receptors to induce cellular responses. CD73 has also been reported to regulate the expression of pro-inflammatory molecules in mouse endothelium.

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