

Anti-CD73/NT5E Antibody
Catalog # AN1710**Specification**

Anti-CD73/NT5E Antibody - Product Information

Application	WB
Primary Accession	P21589
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Calculated MW	63368

Anti-CD73/NT5E Antibody - Additional Information

Gene ID 4907

Other Names

5'-nucleotidase, NT5E, NTE, CD73, NT5

Target/Specificity

CD73 is a glycosyl phosphatidylinositol (GPI) anchored membrane protein that belongs to the 5'-nucleotidase family. CD73 is an ecto 5'-Nucleotidase expressed by most cell types. CD73 hydrolyzes extracellular nucleotides into membrane permeable nucleosides. CD73 is one of several enzymes responsible for the production of extracellular adenosine, a signaling molecule that is involved in responses to inflammation and tissue injury. CD73 is a lymphocyte maturation marker that has functions independent of its catalytic activity. CD73 is also a regulator of leukocyte extravasation, a function that requires its 5'-Nucleotidase activity. Defects in NT5E are the cause of calcification of joints and arteries (CAJA). The recombinant CD73 lacking GPI anchor is secreted as a monomer. CD73 has been implicated as a prognostic indicator and therapeutic target in cancers. CD73 may act as an immune checkpoint inhibitor to natural killer cells in tumors, and this activity correlates with tumor invasiveness, metastasis, and poor outcome in cancer patients.

Dilution

WB~~1:1000

Format

Protein G Purified

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Anti-CD73/NT5E Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

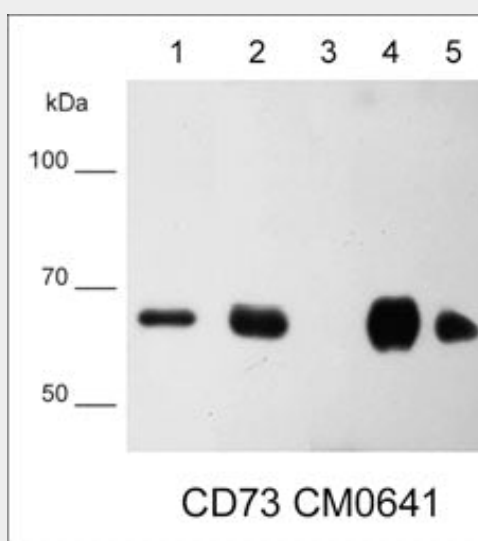
Blue Ice

Anti-CD73/NT5E Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CD73/NT5E Antibody - Images



Western blot of native lysates including human CD73 recombinant protein (lane 1), NCI-H1915 lung carcinoma (lane 2), MeWo melanoma (lane 3), NCI-H1299 lung carcinoma (lane 4), and MDA-MB-231 breast carcinoma (lane 5). The blot was probed with mouse monoclonal anti-CD73 (CM0641) at 1:500.

Anti-CD73/NT5E Antibody - Background

CD73 is a glycosyl phosphatidylinositol (GPI) anchored membrane protein that belongs to the 5'-nucleotidase family. CD73 is an ecto 5'-Nucleotidase expressed by most cell types. CD73 hydrolyzes extracellular nucleotides into membrane permeable nucleosides. CD73 is one of several enzymes responsible for the production of extracellular adenosine, a signaling molecule that is involved in responses to inflammation and tissue injury. CD73 is a lymphocyte maturation marker that has functions independent of its catalytic activity. CD73 is also a regulator of leukocyte extravasation, a function that requires its 5'-Nucleotidase activity. Defects in NT5E are the cause of calcification of joints and arteries (CAJA). The recombinant CD73 lacking GPI anchor is secreted as a monomer. CD73 has been implicated as a prognostic indicator and therapeutic target in cancers. CD73 may act as an immune checkpoint inhibitor to natural killer cells in tumors, and this activity correlates with tumor invasiveness, metastasis, and poor outcome in cancer patients.