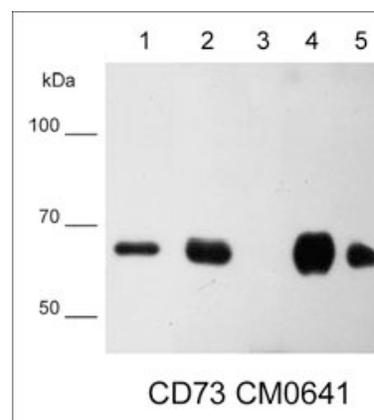


### Background

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.

### Background References

Le Hir, M. & Kaissling, B. (1993) *Am J Physiol.* 264:F377.  
Allard, D. et al. (2019) *Immunol Lett.* 205:31-39.



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.

### Applications

WB 1:500  
ELISA 1:1000  
IP 1:50

### Species Reactivity

Hu

**Isotype:** IgG1

### Specificity

Clone M064 mouse monoclonal antibody detects a 65 kDa\* protein on SDS-PAGE "Native" immunoblots of human H1299, H1915, and MDA-MB-231 carcinomas. This antibody weakly detects denatured CD73. The antibody works for native western blot, immunoprecipitation, and ELISA.

End user should determine optimal dilution for their particular applications and experiments.  
Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

\*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

### Immunogen

**Uniprot ID: P21589**

Clone (M064) was generated from a proprietary antigen related to the mature form of CD73 expressed in the NCI-H1299 lung cancer cell line.

### Buffer and Storage

Mouse monoclonal antibody purified with protein G chromatography is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

### Related Products

AM0181 Annexin A1 Mouse Monoclonal  
AM0091 Annexin A2 Mouse Monoclonal  
CM0021 CD55 (Extracellular region) Mouse Monoclonal  
CM0261 CD99 (Extracellular region) Mouse Monoclonal  
EM0391 EpCAM (Extracellular region) Mouse Monoclonal

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