

**Mouse Anti-CD73/NT5E [MD82]: MC0398, MC0398RTU7**

**Intended Use:** For Research Use Only

**Description:** Ecto-5'-nucleotidase (NT5E, also called CD73) is a 70 kDa glycosyl phosphatidylinositol-anchored, membrane-bound glycoprotein that catalyzes the hydrolysis of extracellular nucleoside monophosphates into bioactive nucleosides. NT5E catalyzes the terminal step of extracellular adenosine formation from adenosine monophosphate, which drives the regulation of extracellular adenosine levels and the downstream activation of the four G protein-coupled adenosine receptors. Binding of hypoxia-inducible factor (HIF-1) to the NT5E gene promoter leads to upregulation of NT5E during hypoxia (3). The biological roles of NT5E include lymphocyte adhesion, fibrosis (6), and the regulation of nociception. NT5E/CD73 (D7F9A) Rabbit mAb recognizes endogenous levels of total NT5E/CD73 protein.

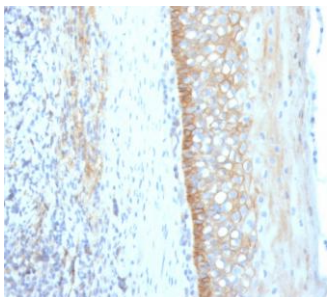
**Specifications:**

Clone: MD82  
 Source: Mouse  
 Isotype: IgG1k  
 Reactivity: Human  
 Immunogen: Recombinant full length human NT5E protein  
 Localization: Membrane  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>).  
 Storage: Store at 2°- 8°C  
 Applications: IHC, ELISA, Flow Cyt, IF, WB  
 Package:

Description	Catalog No.	Size
CD73/NT5E Concentrated	MC0398	1 ml
CD73/NT5E Prediluted	MC0398RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Lung ca, liver, kidney  
 Concentrated Dilution: 50-200  
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual  
 \* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-CD73 using DAB

**References:**

1. A2AR Antagonism with CPI-444 Induces Antitumor Responses and Augments Efficacy to Anti-PD-(L)1 and Anti-CTLA-4 in Preclinical Models. Willingham, S. B., et al. Cancer Immunology Research on 1 October 2018.
2. CD73 expression and clinical significance in human metastatic melanoma. Monteiro, I., et al. Oncotarget on 1 June 2018.
3. CD73 Regulates Stemness and Epithelial-Mesenchymal Transition in Ovarian Cancer-Initiating Cells. Lupia, M., et al. Stem Cell Reports on 10 April 2018.

Doc. 100-MC0398  
Rev. A