

10-4106: Monoclonal Antibody to CD73 (Clone: ABM40E2)

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| Clonality : | Monoclonal |
| Clone Name : | ABM40E2 |
| Application : | IHC,FACS,WB |
| Reactivity : | Human |
| Gene : | NT5E |
| Gene ID : | 4907 |
| Uniprot ID : | P21589 |
| Format : | Purified |
| Alternative Name : | NT5E,NT5,NTE |
| Isotype : | Mouse IgG2a Kappa |
| Immunogen Information : | A partial length recombinant CD73 protein (amino acids 145-346) was used as the immunogen for this antibody. |

Description

CD73, also known as ecto-5'-nucleotidase, is a glycosyl-phosphatidylinositol linked plasma membrane glycoprotein that is expressed on multiple cell types and in different tissues. It is a key enzyme in the regulation of purinergic signaling and inflammatory reactions. It hydrolyzes extracellular AMP into adenosine, which dampens immune cell activation, and reduces leukocyte trafficking CD73 potently suppresses antitumor T cell responses through its ability to generate adenosine. It has also emerged as an important regulator of tissue homeostasis and pathophysiologic responses related to immunity, inflammation, pain, ischemia, tissue fibrosis and cancer.

Product Info

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| Amount : | 25 µg / 100 µg |
| Purification : | Protein G Chromatography |
| Content : | 25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic. |
| Storage condition : | Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles. |

Application Note

Western blot analysis: 2-4 µg/ml, Immunohistochemical analysis: 5 µg/ml, FACS: 0.2-0.5 µg/10⁶ cells

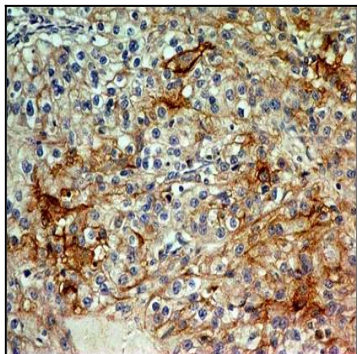


Fig-1: Immunohistochemical analysis of CD73 in renal cell carcinoma using CD73 antibody (Clone: ABM40E2) at 5 μ g/ml.

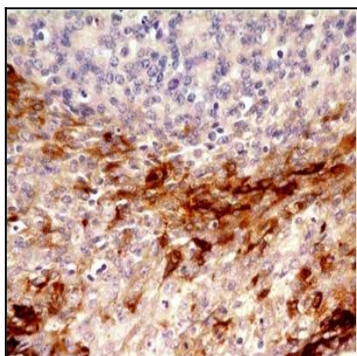


Fig-2 : Immunohistochemical analysis of CD73 in endometrium carcinoma using CD73 antibody (Clone: ABM40E2) at 5 μ g/ml.

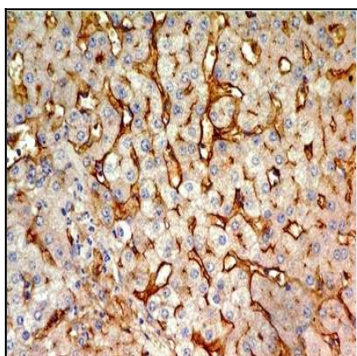


Fig-3: Immunohistochemical analysis of CD73 in human Liver using CD73 antibody (Clone: ABM40E2) at 5 μ g/ml.

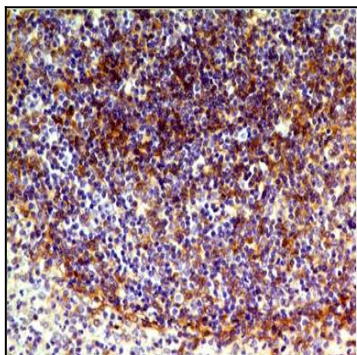


Fig-4: Immunohistochemical analysis of CD73 in human Spleen using CD73 antibody (Clone: ABM40E2) at 5 μ g/ml.

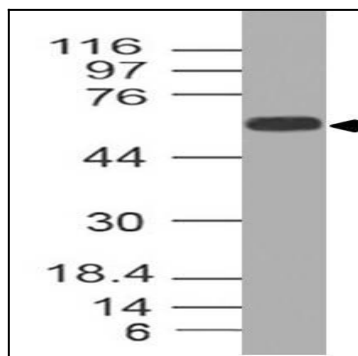


Fig-5: Western blot analysis of CD73. Anti- CD73 antibody (Clone: ABM40E2) was tested at 2 $\mu\text{g}/\text{ml}$ on human liver lysate.

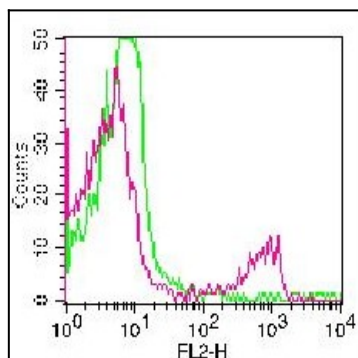


Fig-6: Cell Surface flow analysis of hCD73 in PBMC (Lymphocytes) using 0.2 $\mu\text{g}/10^6$ cells of CD73 clone (ABM40E2). Green represents isotype control; red represents anti-hCD73 antibody. Goat anti-mouse PE conjugated secondary antibody (ABEOMICS) was used.