

Monoclonal anti-human CD73 antibody (clone AT2B6)

Mouse IgG_{2b}, κ

Cat. No. IBACD0806

Immunogen: Recombinant human CD73 (27-252aa) purified from *E. coli*.

NCBI Accession No.: NP_002517

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

Clone: Anti-human CD73 mAb, clone 2B6, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CD73 protein.

Description: CD73 (Ecto-5'-nucleotidase, 5'-NT) is a membrane-bound glycoprotein that functions to hydrolyze extracellular nucleoside monophosphates into bioactive nucleoside intermediates. This enables the uptake of adenosine, inosine, and guanosine into the cell and their subsequent reconversion into ATP and GTP in the purine salvage pathway. The expression of CD73 on neuronal cells has been described during developmental processes and, on lymphocytes, CD73 serves as a maturation marker, being absent from the surface of both immature B and T cells.

Concentration: 1mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Application: ELISA, WB, Flow cytometry, ICC/IF

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

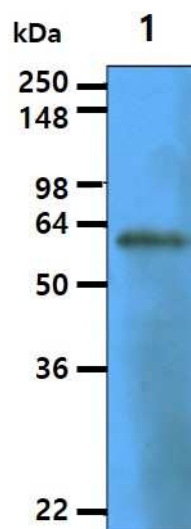
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Product information

Western blot analysis

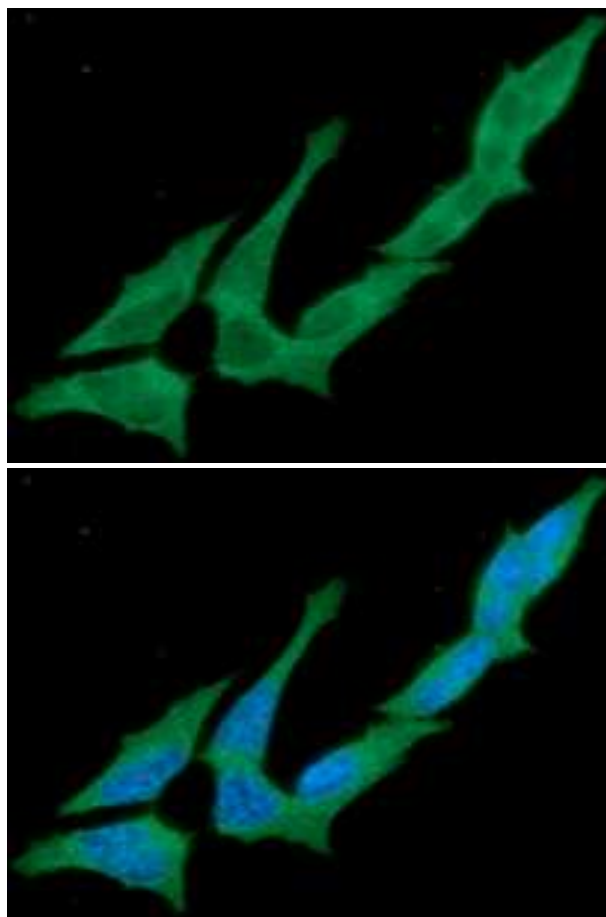
The cell lysates (30ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human CD73 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Human mesenchymal stem cell lysate



ICC/IF analysis

ICC/IF analysis of CD73 in LNCaP cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CD73 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green)

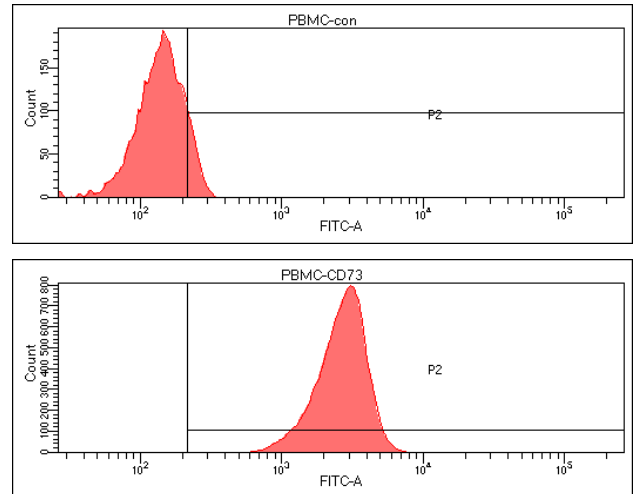


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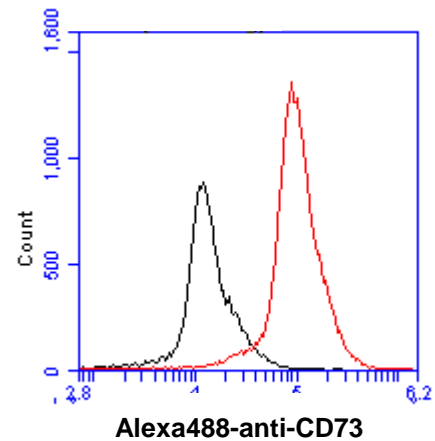
Flow cytometry

Flow cytometry analysis of CD73 in PBMC cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



Flow cytometry

Flow cytometry analysis of CD73 in LNCaP cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



General references: Sern P.C, *et al.*, (2006) *Purinergic Signal*. **2(2)**: 351-360.
 Linda F.T, *et al.*, (2004) *J Exp Med*. **200(11)**: 1395-1405.
 Laura A, *et al.*, (1997) *J Cell Biol*. **136(2)**: 421-431.

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