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Human 5′-Nucleotidase/CD73 antibody

Catalog Number: ACD0806

PRODUCT INFORMATION

Catalog number
ACD0806

Clone No.
AT89E9

Product type
Monoclonal Antibody

UnitProt No.
P21589

NCBI Accession No.
NP_002517

Alternative Names
CD73, 5-NT, 5'-nucleotidase, 5'-nucleotidase ecto, AI447961, E5NT, ecto, eN, eNT, NT, NT5, Nt5e, NTE, 2210401F01Rik

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

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

Isotype
IgG2b kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA, WB, ICC/IF, FACS

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

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

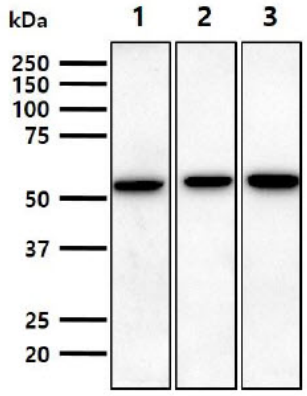
CD73 (Ecto-5-nucleotidase, 5-NT) is a membrane-bound glycoprotein that functions to hydrolyze extracellular nucleoside monophosphates into bioactive nucleoside intermediates. This enables the uptake of adenosine, inosine, and guanosine into the cell and their subsequent reconversion into ATP and GTP 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.

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.

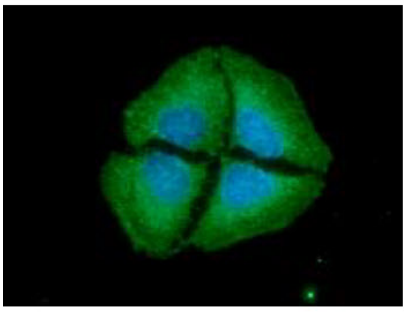
DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human 5'-Nucleotidase/CD73 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: HepG2 cell lysate
Lane 2.: WiDr cell lysate
Lane 3.: A431 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of 5'-Nucleotidase/CD73 in HeLa cells. The cell was stained with ACD0806 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

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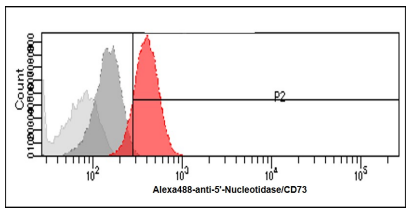
Flow cytometry (FACS)



Flow cytometry analysis of 5'-Nucleotidase/CD73 in A431 cells. The cell was stained with ACD0806 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mousemonoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).