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## Human 5'-Nucleotidase/CD73 antibody

Catalog Number: ATGA0554

## **PRODUCT INFORMATION**

## Catalog number

ATGA0554

#### 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, Al447961, E5NT, ecto, eN, eNT, NT, NT5, Nt5e, NTE, 2210401F01Rik

#### **Additional Information**

This product was produced from tissue culture supe

## **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 5'-Nucleotidase/CD73 (27-252aa) purified from E. coli

## Isotype

IgG2b kappa

#### **Purification Note**

By protein-G affinity chromatography

#### **Application**

ELISA, WB, FACS

#### Usage

The antibody has been tested by ELISA, Western blot and FACS analysis to assure specificity and reactivity.



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Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

#### **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**

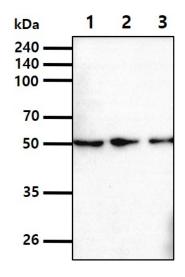
CD73 (Ecto-5-nucleotidase, 5-NT) is a membrane-bound glycoprotein that functions to hydrolyze extracellular nucleoside monophosphates into bioactive nucleoside intermediates. This enables the uptake of adenosine, inosine, and guanosine into the cell and their subsequent reconversion into ATP and GTP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

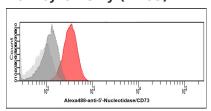
## Western blot analysis (WB)



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

#### Flow cytometry (FACS)



Flow cytometry analysis of 5'-Nucleotidase/CD73 in A431 cells. The cell was stained with ATGA0554 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).

