

For Research Use Only

# NT5E,CD73 Monoclonal antibody

Catalog Number: 67789-1-Ig **Featured Product**



## Basic Information

<b>Catalog Number:</b> 67789-1-Ig	<b>GenBank Accession Number:</b> BC015940	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 4907	<b>CloneNo.:</b> 1G5G8
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P21589	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:500-1:2000 IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> 5'-nucleotidase, ecto (CD73)	
<b>Immunogen Catalog Number:</b> AG30616	<b>Calculated MW:</b> 29 kDa, 63 kDa	
	<b>Observed MW:</b> 60-70 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Species Specificity:

Human, Rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** HeLa cells, HepG2 cells, A549 cells, HT-29 cells, U-87 MG cells

**IHC:** human tonsillitis tissue, rat kidney tissue

**IF:** human tonsillitis tissue, rat liver tissue

## Background Information

CD73, also known as ecto-5'-nucleotidase (5'-NT), is a 70-kDa, glycosyl-phosphatidylinositol-linked membrane-bound glycoprotein found in most tissues (PMID: 18404475; 20179192). CD73 is an ectoenzyme that catalyzes the dephosphorylation of AMP and other nucleoside monophosphates (PMID: 9553767). In the human immune system, CD73 is expressed on subsets of T and B cells, on germinal center follicular dendritic cells, and on thymic medullary reticular fibroblasts and epithelial cells (PMID: 2137649; 9553767). CD73 is highly expressed in many human solid tumors and is closely involved in cancer progression (PMID: 20179192).

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

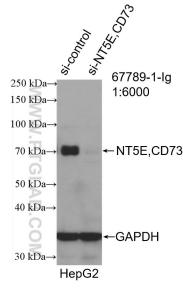
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

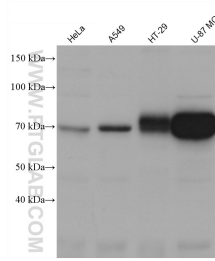
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

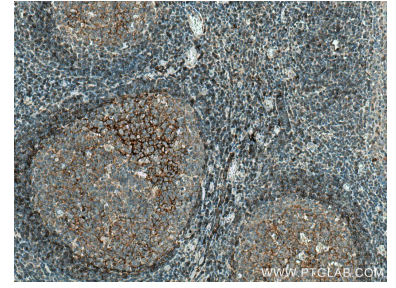
## Selected Validation Data



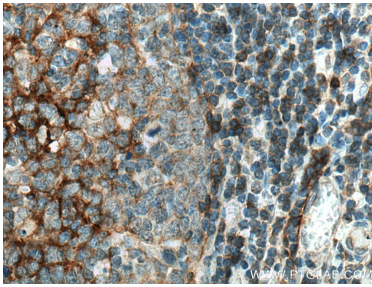
WB result of NT5E,CD73 antibody (67789-1-Ig; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NT5E,CD73 transfected HepG2 cells.



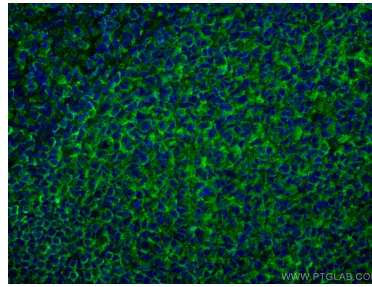
Various lysates were subjected to SDS PAGE followed by western blot with 67789-1-Ig (NT5E,CD73 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67789-1-Ig (NT5E,CD73 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 67789-1-Ig (NT5E,CD73 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using NT5E,CD73 antibody (67789-1-Ig, Clone: 1G5G8) at dilution of 1:200 and CoralLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).