

For Research Use Only

NT5E/CD73 Polyclonal antibody

Catalog Number: 12231-1-AP

Featured Product

41 Publications



Basic Information

Catalog Number: 12231-1-AP	GenBank Accession Number: BC015940	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 350 µg/ml by Nanodrop;	GeneID (NCBI): 4907	Recommended Dilutions: WB 1:1000-1:3000 IHC 1:250-1:1000 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: P21589	
Isotype: IgG	Full Name: 5'-nucleotidase, ecto (CD73)	
Immunogen Catalog Number: AG2869	Calculated MW: 29 kDa, 63 kDa	
	Observed MW: 63-70 kDa	

Applications

Tested Applications:
FC, IF, IHC, WB, ELISA

Cited Applications:
WB,IHC,IF,FC,ELISA

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse, Bovine

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 : A375 cells, human spleen tissue, K-562 cells, mouse brain tissue, HT-29 cells, HuH-7 cells, Jurkat cells

IHC : human lung cancer tissue, human stomach cancer tissue, human stomach tissue, mouse kidney tissue, human colon cancer tissue

IF : mouse small intestine tissue,

Background Information

NT5E(5'-nucleotidase) is also named as NT5, NTE,CD73,ecto-5'-nucleotidase, and belongs to the 5'-nucleotidase family. It catalyzes the conversion at neutral pH of purine 5-prime mononucleotides to nucleosides, the preferred substrate being AMP. The enzyme occurs mainly as a dimer and the wide distribution of NT5E in the rat hippocampus, suggesting their involvement in the control of the purinergic signaling(PMID:17619139). This protein has two isoforms with the molecular weight of 63 kDa and 58 kDa and four glycosylation sites with a signalpeptide. It can exist as a dimer(PMID:17619139). It can be detected the band of 55 kDa,64 kDa, 70 kDa, 110 kDa by western blot(PMID:17619139; 12370277; 21533188). Defects in NT5E are the cause of calcification of joints and arteries (CALJA).

Notable Publications

Author	Pubmed ID	Journal	Application
Xue Wu	36330907	Int Immunopharmacol	WB,IHC
Xuxin Chen	30362554	J Cell Physiol	FC
Wengeng Lu	34746277	Front Vet Sci	IF

Storage

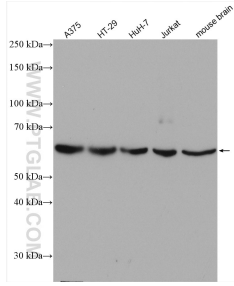
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

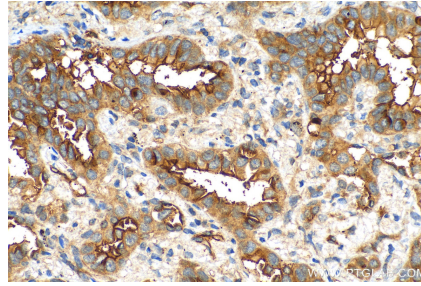
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

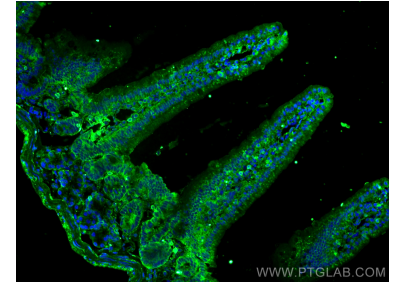
Selected Validation Data



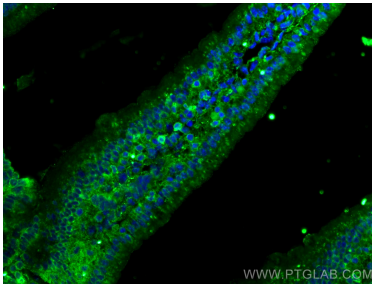
Various lysates were subjected to SDS PAGE followed by western blot with 12231-1-AP (NT5E/CD73 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



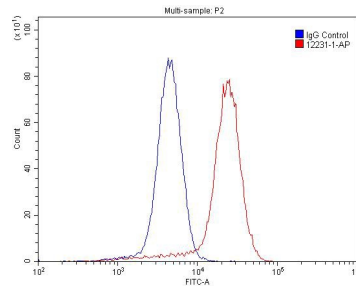
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 12231-1-AP (NT5E/CD73 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse small intestine tissue using NT5E/CD73 antibody (12231-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse small intestine tissue using NT5E/CD73 antibody (12231-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10⁶ NCCIT cell were stained with 0.2ug NT5E/CD73 antibody (12231-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.