

Datasheet for ABIN7543158

Recombinant anti-CD73 antibody



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Overview

Quantity:	200 µg
Target:	CD73 (NT5E)
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This CD73 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	Anti-CD73 [AD2], Mouse IgG1, kappa
Immunogen:	The original antibody was generated by immunizing mice with full-length CD73 purified from human placenta.
Clone:	AD2
Isotype:	IgG1 kappa
Specificity:	This antibody is specific for human CD73, which is a 70 kD glycoposphatidylinositol (GPI)-linked 5'-nucleotidase. This antibody does not show cross reactivity with mouse CD73.
Characteristics:	Original Species of Ab: Mouse Original Format of Ab: IgG1
Purification:	Protein A affinity purified

Target Details

Target:	CD73 (NT5E)
Alternative Name:	CD73 (NT5E Products)
Background:	NT5E, 5'-NT, 5'-nucleotidase, Ecto-5'-nucleotidase
UniProt:	P21589
Pathways:	Synaptic Membrane , Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	The enzymatic activity of CD73 causes hydrolysis of extracellular nucleotides into membrane permeable nucleosides. This antibody promotes cell-surface clustering of CD73 followed by internalization, thus inhibiting the ability of circulating tumor cells to extravasate and colonize, leading to inhibition of metastasis. This antibody inhibited development of metastasis in a spontaneous animal model of human metastatic breast cancer. Flow cytometry analysis showed that anti-CD73 AD2 mAb (AD2 mAb) recognized CD73 on the human breast cancer cell lines LM3 and MDA-MB-231, but failed to detect the murine CD73 variant expressed on isolated mouse mononuclear hematopoietic cells(PMID: 24043904). This antibody was also used to study the expression of CD73 in normal mammary gland and breast carcinoma cells using immunohistochemistry (PMID: 1989648). mAb AD2 was also used in the immunofluorescence staining for detection of human CD73 in the thymus, peripheral blood, spleen, and lymph node in transgenic mice (PMID: 9045870). Bispecific antibody generated using 1E9 and mAb AD2 is reported to inhibit the enzymatic activity of CD73 as well as promotes internalization of CD73.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % Proclin 300.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.