

Product datasheet

Anti-CD73 antibody [7G2] ab54217

★★★★★ [3 Abreviews](#) [29 References](#) [2 Images](#)

Overview

Product name	Anti-CD73 antibody [7G2]
Description	Mouse monoclonal [7G2] to CD73
Host species	Mouse
Tested applications	Suitable for: Flow Cyt, ICC Unsuitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Full length purified Human placental CD73.
Positive control	Flow Cyt: Human peripheral blood lymphocytes. ICC: U-87 MG cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
Storage buffer	pH: 7.40 Preservative: 0.1% Sodium azide Constituent: PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	7G2
Isotype	IgG2a
Light chain type	kappa

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab54217 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt	★☆☆☆☆ (1)	Use a concentration of 1 - 2 µg/ml. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
ICC	★★★★★ (1)	1/100.

Application notes

Is unsuitable for WB.

Target

Function

Hydrolyzes extracellular nucleotides into membrane permeable nucleosides.

Involvement in disease

Defects in NT5E are the cause of calcification of joints and arteries (CAJA) [MIM:211800]. A condition characterized by adult-onset calcification of the lower extremity arteries, including the iliac, femoral and tibial arteries, and hand and foot capsule joints. Age of onset has been reported as early as the second decade of life, usually involving intense joint pain or calcification in the hands.

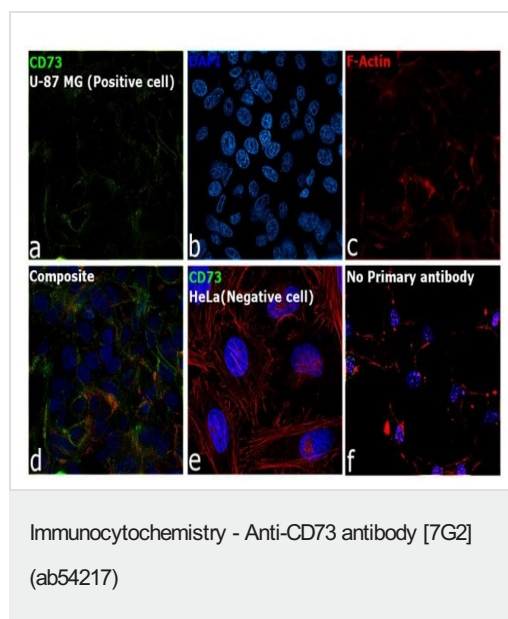
Sequence similarities

Belongs to the 5'-nucleotidase family.

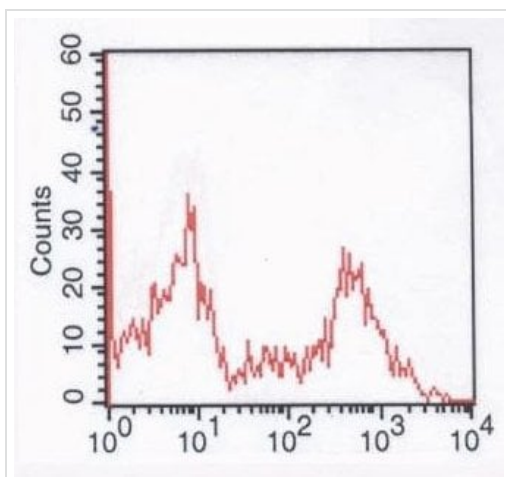
Cellular localization

Cell membrane.

Images



Immunofluorescence analysis of CD73 was performed using 70% confluent log phase U-87 MG cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with ab54217 at a concentration of 1 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with a Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, Alexa Fluor® 488 conjugate, (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (1:300 dilution). Panel d represents the merged image showing membrane localization. Panel e represents HeLa cells showing no expression of CD73. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



Flow Cytometry - Anti-CD73 antibody [7G2]
(ab54217)

ab54217 staining human peripheral blood lymphocytes by FACS analysis.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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