

Monoclonal Anti-human CD39

Product reference: DDX0321

Description

CD39, also known as ENTPD1, is a 58KDa multi-pass membrane protein belonging to the GDA1/CD39 NTPase family. It is expressed primarily on activated lymphoid cells and can also be detected in endothelial tissues. The vascular isoform and the placental isoform II are present in both placenta and umbilical vein, whereas placental isoform I is present in placenta only. CD39 can hydrolyze both nucleoside triphosphates and diphosphates. AC2.5 was generated after mouse immunization with EBV-transformed B cells. (Rowe M et al, Int J Cancer. 1982 Apr 15;29(4):373-81).

Clone: AC2.5 **Species:** mouse **Specificity:** human CD39

Immunogen: EBV-transformed human B lymphoblastoid cell line

Species cross-reactivity: nd **Isotype:** IgG1

Purification: QMA Hyper D ion exchange chromatography

Formulation/size: **Purified**: 100 µg in 200 µl / 50 µg in 100 µl Tris-NaCl pH 8

Coupled: 100 µg in 200µl / 50 µg in 100 µl PBS 50% glycerol

Available formats:

Reference N°		Format	Application tested	
50µg	100µg			
DDX0321P-50	DDX0321P-100	Purified	Surface flow cytometry, IHC frozen section, IP, WB	
DDX0321A488-50	DDX0321A488-100	Alexa-fluor®488	Surface Flow cytometry, IF	
DDX0321A546-50	DDX0321A546-100	Alexa- fluor®546	IF	
DDX0321A647-50	DDX0321A647-100	Alexa- fluor®647	Surface Flow cytometry	
DDX0321B-50	DDX0321B-100	Biotin	IHC, WB	

Other clones available on request

Applications tested

Table 1. MFI^a values from tonsillar and in vitro cultured B cells

Molecule	GC B cells	Resting B cells	Stimulated B cells ^b	
			- Anti-CD44	+ Anti-CD44
CD10 CD23 CD24 CD38 CD39 CD71 CD77 CD95	280 5 5 1500 5 170 310–610° 275	10 90 75 120 85 10 5	15–90 30–60 5 200–450 90 130 20–90 65–90	110–270 90–180 5 250–650 15 185 150–880° 65–190

aMean fluorescent intensity (channel number) of the specific

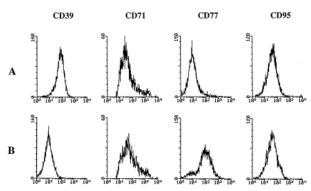


Fig. 1. A GC phenotype is induced by stimulating resting B cells with anti-CD40, anti-CD44 and anti-IgM. IgD*/CD38* tonsillar B cells (3x 10* were cultured on CD32-transfected fibroblasts together with (A) anti-CD40 and anti-IgM or (B) anti-CD40, anti-CD40 and anti-IgM. After days of culture, the cells were stained with anti-CD20-FITC and CD20*Igf0 cells gated for further analyzed with anti-CD10, CD23, CD24, CD38* CD39*, CD71, CD77 and CD95-RPE respectively. Data represents nine experiments and is presented as histograms for each marker.

Ingvarsson et al, Int Immunol, 1999

Usage recommendation: *This monoclonal antibody may be used between 5-20 µg/ml.

*Optimal dilution should be determined by each laboratory for each

application.

*Coupled antibody: to maintain RT before use.

Aliquot storage conditions: -20°C. KEEP CONTENTS STERILE: no preservative.

> Purified antibodies: avoid repeated freeze/thaw cycles. Coupled antibodies: glycerol protects from freezing.

Not for use in Humans. For research purpose only

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wheal individual individual in the specific staining.

blgD+/CD38- tonsillar B cells (3×10⁵) were cultured on CD32-transfected fibroblasts together with anti-CD40 and anti-IgM with or without anti-CD44 for 3 days. The data represents nine experiments and the range in MFI is due to donor variation.

cHeterogeneous expression.