

## Product datasheet for **DDX0321A546-100**

### CD39 (ENTPD1) Mouse Monoclonal Antibody [Clone ID: AC2.5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AC2.5
Applications:	IF
Recommend Dilution:	<b>DDX0321P-50 DDX0321P-100 Purified:</b> FACS surface, ImmunoHistoChemistry frozen sections, Immunoprecipitation, Western Blot. <b>DDX032A488-50 DDX0321A488-100 AlexaFluor®488:</b> FACS surface, Immunofluorescence. <b>DDX0321A546-50 DDX0321A546-100 AlexaFluor®546:</b> Immunofluorescence. <b>DDX0321A647-50 DDX0321A647-100 AlexaFluor®647:</b> Surface and Intracyto Flow cytometry <b>DDX0321B-50 DDX0321B-100 Biotin:</b> Western Blot, ImmunoHistoChemistry frozen sections.

#### 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.

Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	EBV-transformed human B lymphoblastoid cell line.
Specificity:	Human CD39.
Formulation:	<b>Purified:</b> 100 µg in 200 µl / 50 µg in 100 µl Tris-NaCl pH 8. <b>Coupled:</b> 100 µg in 200µl / 50 µg in 100 µl PBS 50% glycerol. Label: Alexa Fluor 546
Concentration:	0.5 mg/ml
Purification:	QMA Hyper D ion exchange chromatography
Conjugation:	Alexa Fluor 546
Gene Name:	ectonucleoside triphosphate diphosphohydrolase 1
Database Link:	<a href="#">Entrez Gene 953 Human</a>



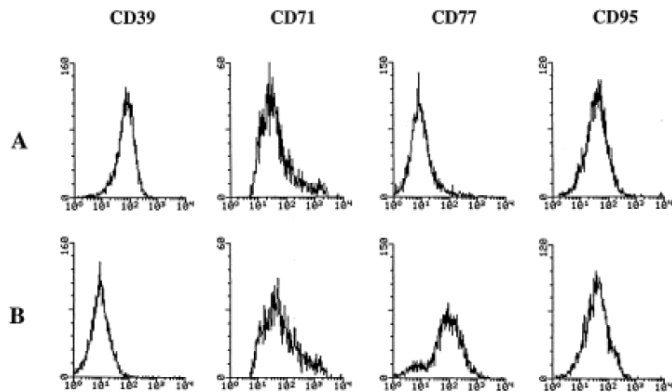
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**Background:**

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).

**Synonyms:**

NTPDase 1, Ecto-apyrase, ATPDase

**Product images:**

**Fig. 1.** A GC phenotype is induced by stimulating resting B cells with anti-CD40, anti-CD44 and anti-IgM. IgD<sup>+</sup>/CD38<sup>-</sup> tonsillar B cells ( $3 \times 10^5$ ) were cultured on CD32-transfected fibroblasts together with (A) anti-CD40 and anti-IgM or (B) anti-CD40, anti-CD44 and anti-IgM. After 4 days of culture, the cells were stained with anti-CD20-FITC and CD20<sup>high</sup> 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.