



Mouse Anti-Human CD73 monoclonal antibody, clone 717223 (CABT-L1980)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Detects recombinant human 5'-Nucleotidase in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse 5'-Nucleotidase is observed.
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human 5'-Nucleotidase/CD73 Trp27-Ile511
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human, Equine
Clone	717223
Purification	Protein A or G purified from hybridoma culture supernatant
Conjugate	Unconjugated
Applications	FC
Format	Lyophilized
Size	100 µg
Buffer	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
Preservative	None
Storage	Store a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution.

6 months, -20 to -70 °C under sterile conditions after reconstitution.

Background: 5'-Nucleotidase/CD73

Ship	The product is shipped at ambient temperature.
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BACKGROUND

Introduction	5'-Nucleotidase (also [ecto]-5'-nucleotidase/5'-NT, designated CD73) is a variably glycosylated, 69-73 kDa member of the 5'-Nucleotidase family of enzymes. It is expressed on multiple cell types, including vascular endothelium, transitional and nonkeratinized epithelium, cardiomyocytes, small intestine epithelium, FoxP3+ Treg lymphocytes, FDCs and B cells. 5'-Nucleotidase hydrolyzes AMP to adenosine and phosphate. This creates diffusible nucleosides necessary for cell homeostasis, and a ligand for cell membrane adenosine receptors. Mature human 5'-Nucleotidase is a 523 amino acid (aa) GPI-linked protein (aa 27-549). It contains a large Zn-dependent nucleotidase catalytic region (aa 28-532) and a C-terminal substrate binding site (aa 500-506). On the cell surface it exists as a disulfide-linked homodimer. Two splice variants are reported. One shows a deletion of aa 405-454, and a second possesses a 12 aa substitution for aa 253-574. Over aa 1-511, human 5'-Nucleotidase shares 88% aa identity with both mouse and rat 5'-Nucleotidase.
Keywords	5' nucleotidase (CD73); 5'-NT; 5-NT; 5'Nucleotidase; 5'-Nucleotidase; 5'-nucleotidase, ecto (CD73); CD73 antigen; CD73; E5NT; EC 3.1.3.5; ecto-5'-nucleotidase; eN; eNT; NT; NT55'-nucleotidase; NT5E; NTE; Purine 5-Prime-Nucleotidase

GENE INFORMATION

Entrez Gene ID	4907
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