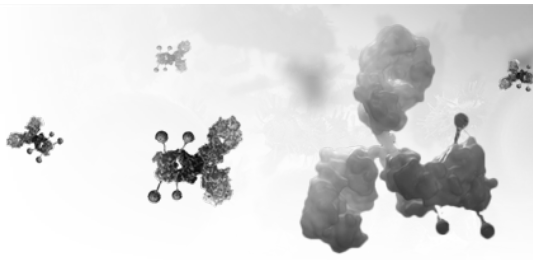

Rat Anti-Mouse CD73 Monoclonal antibody, clone TY/23 (CABT-L4476)

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

PRODUCT INFORMATION

Product Overview	The TY/23 monoclonal antibody reacts with mouse CD73 also known as ecto-5'-nucleotidase (5'-NT), a 69 kDa GPI-anchored cell-surface protein. In mice, expression of CD73 is restricted to CD11b+ myeloid cells in the bone marrow and T cells in the spleen. CD73 plays a strategic role in calibrating the duration, magnitude, and chemical nature of purinergic signals delivered to immune cells through the conversion of AMP to adenosine. This drives a shift from an ATP-driven proinflammatory environment to an anti-inflammatory milieu induced by adenosine. CD73 has been shown to be important for the immunosuppressive activity of regulatory T cells. The TY/23 antibody has been reported to inhibit the enzymatic activity of CD73.
Target	Mouse CD73
Immunogen	BALB/c mouse spleen cells and CHO cells transfected with the mouse CD73 gene
Isotype	IgG2a, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	TY/23
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo CD73 blockade
Molecular Weight	150 kDa
Format	0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	The protein encoded by this gene is a plasma membrane protein that catalyzes the conversion of extracellular nucleotides to membrane-permeable nucleosides. The encoded protein is used as a determinant of lymphocyte differentiation. Defects in this gene can lead to the calcification of joints and arteries. Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2011]
Keywords	NT5E;5-nucleotidase, ecto (CD73);NT;eN;NT5;NTE;eNT;CD73;E5NT;CALJA;5-nucleotidase;5-NT;ecto-5-nucleotidase;Purine 5-Prime-Nucleotidase;

GENE INFORMATION

Official Symbol	5-nucleotidase, ecto (CD73)
Synonyms	NT5E; 5-nucleotidase, ecto (CD73); NT; eN; NT5; NTE; eNT; CD73; E5NT; CALJA; 5-nucleotidase; 5-NT; ecto-5-nucleotidase; Purine 5-Prime-Nucleotidase;
References	Allard, B., et al. (2014). "Anti-CD73 therapy impairs tumor angiogenesis." Int J Cancer 134(6): 1466-1473. PubMed;

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