

Mouse CD39L3/ENTPD3 Alexa Fluor® 594-conjugated Antibody

Monoclonal Rat IgG₁ Clone # 568610

Catalog Number: FAB4464T

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CD39L3/ENTPD3 in direct ELISAs. In Western blots, less than 15% cross-reactivity with recombinant human (rh) CD39L4 and no cross-reactivity with rhCD39L3, recombinant mouse (rm) CD39, or rmCD39L2 is observed.
Source	Monoclonal Rat IgG ₁ Clone # 568610
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse CD39L3/ENTPD3 Gln44-Pro485 Accession # NP_848791
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Neuro-2A mouse neuroblastoma cell line

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Ectonucleoside triphosphate diphosphohydrolase-3 (NTPDase-3) is an integral membrane protein with an extracellular catalytic domain (1). rhNTPDase-3 was expressed as a protein lacking its N- and C-terminal transmembrane domains, resulting in the secretion of the soluble rhNTPDase-3 ectodomain. NTPDase-3 hydrolyzes the β- and γ-phosphate groups of nucleotides, preferring ATP, ADP, UTP, and UDP as substrates (1). Through its hydrolysis of extracellular nucleotides, NTPDase-3 is important for the regulation of purinergic signaling (2). The enzyme is expressed at its highest levels in brain, pancreas, spleen, and prostate tissues (3). In the brain, NTPDase-3 may play a role in the regulation of feeding, sleep, and other behaviors (4).

References:

1. Lavoie, E.G. *et al.* (2004) *Biochem. Pharmacol.* **67**:1917.
2. Crawford, P.A. *et al.* (2007) *Arch. Biochem. Biophys.* **457**:7.
3. Chadwick, B.P. and A.M. Frischauf (1998) *Genomics* **50**:357.
4. Belcher, S.M. *et al.* (2006) *Neuroscience* **137**:1331.

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