

Size	Price
25 µl of serum	Contact us

Polyclonal guinea pig anti-rat NTPDase8 antibodies

Name: rN8-7_C(I₄,I₅); rN8-8_C(I₄,I₅); rN8-9_C(I₄,I₅)

Applications¹

	Yes	Dilution	No	Not tested
Western blot (non-reduced) [§]	+	1:500-1:2000		
Western blot (reduced)			×	
Immunohistochemistry*	+	1:500-1:1000		
Flow cytometry				×
ELISA				×
Immunoprecipitation				×

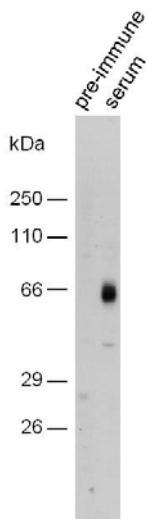
[§] Thiol-reactive reagents (e.g. β-mercaptoethanol, DTT) must be avoided as they destroy the epitope recognized by the antibody.

* Cryosection and acetone fixation.

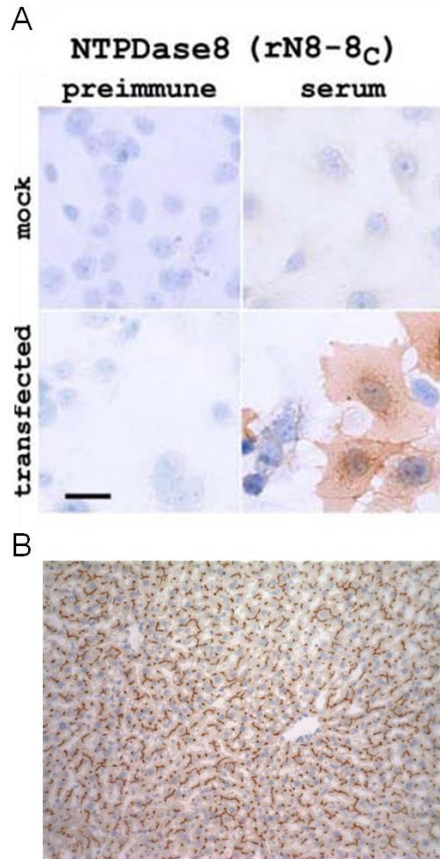
Cross-reactivity

In Western blot, these antibodies do not cross-react with mouse NTPDase8.

Western Blot¹



Protein samples (6 µg) from a lysate from COS-7 cells transiently transfected with a plasmid encoding for rat NTPDase8 were loaded on a NuPAGE® Novex® Bis-Tris 4-12% gel under non-reducing conditions, transferred to an Immobilon-P membrane and incubated with rN8-8_CI₅ or preimmune serum. Specific band was detected at the expected molecular weight in the antiserum except for a minor unspecific band seen with the immune serum.

Immuno(cyto/histo)chemistry¹

A: Immunocytochemistry of untransfected COS-7 cells (mock) or transfected with a plasmid encoding rat NTPDase8. A strong signal is observed only with the antiserum in cells expressing rat NTPDase8. No signal is detected in any of the control cells.

Taken from Fausther et al. (2007) *Am J Physiol Gastrointest Liver Physiol*, 292(3), G785-795, Am Physiol Soc, and used with permission.

B: A rat liver section incubated with rN8-8_CI₅ displays a strong signal in canalicular domain of hepatocytes.

In both panels, nuclei are stained with hematoxylin (blue).

Storage

To avoid excessive freeze-thaw cycles, a small amount can be kept at 4°C for generally up to one year. A better method consists to dilute the antibody 10 times in one part of 145 mM NaCl, 1% BSA, 10 mM Tris (pH 7.4), and one part of glycerol (for a final concentration of 50% v/v) and to keep it at -20°C (note that 50% glycerol solutions freeze at about -30°C). For long-term storage, freeze samples directly at -80°C.

Reference to cite in your publication (paper where these antibodies were characterized)

This antibody was obtained from ectonucleotidases-ab.com and its specificity was characterized in:

Fausther M, Lecka J, Kukulski F, Lévesque SA, Pelletier J, Zimmermann H, Dranoff JA, Sévigny J. Cloning, purification and identification of the liver canalicular ecto-ATPase as NTPDase8. *Am J Physiol Gastrointest Liver Physiol*. 2007; 292(3):G785-795.

Few other references where these antibodies were used

- Martín-Satué M, Lavoie EG, Pelletier J, Fausther M, Csizmadia E, Guckelberger O, Robson SC, Sévigny J. Localization of plasma membrane bound NTPDases in the murine reproductive tract. *Histochem Cell Biol*. 2009; 131(5):615-628.

- Lavoie EG, Fausther M, Kauffenstein G, Kukulski F, Künzli BM, Friess H, Sévigny J. Identification of the ectonucleotidases expressed in mouse, rat, and human Langerhans islets: potential role of NTPDase3 in insulin secretion. *Am J Physiol Endocrinol Metab.* 2010; 299(4):E647-656.
- Vongtau HO, Lavoie EG, Sévigny J, Molliver DC. Distribution of ecto-nucleotidases in mouse sensory circuits suggests roles for nucleoside triphosphate diphosphohydrolase-3 in nociception and mechanoreception. *Neuroscience.* 2011; 193:387-398.
- Fausther M, Lecka J, Soliman E, Kauffenstein G, Pelletier J, Sheung N, Dranoff JA, Sévigny J. Co-expression of ecto-5'-nucleotidase/CD73 with specific NTPDases differentially regulates adenosine formation in the rat liver. *Am J Physiol Gastrointest Liver Physiol.* 2012; 302(4):G447-59.
- Vieira C, Magalhaes-Cardoso MT, Ferreirinha F, Silva I, Dias AS, Pelletier J, Sévigny J, Correia-de-Sa P. Feed-forward inhibition of CD73 and upregulation of adenosine deaminase contribute to the loss of adenosine neuromodulation in postinflammatory ileitis. *Mediators Inflamm.* 2014; 254640.
- Gonzalez DA, Egado P, Balcarcel NB, Hattab C, Barbieri van Haaster MM, Pelletier J, Sévigny J, Ostuni MA. Rat submandibular glands secrete nanovesicles with NTPDase and 5'-nucleotidase activities. *Purinergic signalling.* 2015; 11(1):107-116.