

Size	Price
50 µg purified IgG2b	\$300 (CAN)

Monoclonal mouse anti-human NTPDase2 antibodies

Name: hN2-H9_s; hN2-D5_s; hN2-H10_s; hN2-B2_s

Isotype: Mouse IgG2b

Applications¹

	Yes	Dilution	No	Not tested
Western blot (non-reduced) [§]	+	0.2 µg/mL		
Western blot (reduced)			×	
Immunohistochemistry*				
Frozen section	+	1 µg/mL		
Paraffin	+	1 µg/mL		
Flow cytometry	+	1 µg/mL		
ELISA [†]	+	0.5-1 µg/mL		
Immunoprecipitation				×
Inhibition assay	+	5 µg/mL		

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

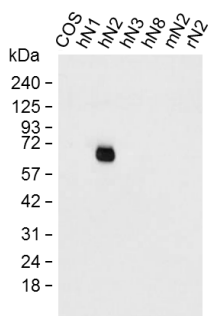
* These antibodies work on cryosection with acetone fixation, and also on paraffin sections using TE buffer (1 mM EDTA with 0.5% Triton X-100 and 50 mM Tris at 37°C, pH 8.0) as antigen retrieval technic but give a lower signal than on frozen section.

† Indirect ELISA where the antibody is added to the well previously coated with the antigen.

Cross-reactivity

In Western blot, hN2-H9_s, -D5_s, -H10_s, -B2_s do not cross-react with neither rat and mouse NTPDase2 nor human NTPDase1, 3 and 8.

Western Blot¹

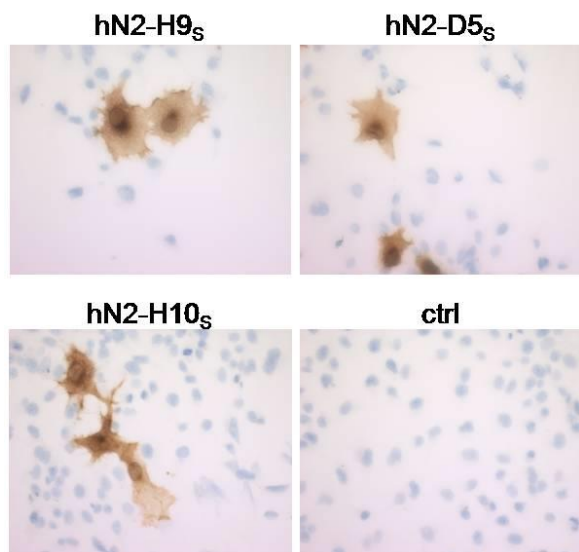


Protein samples (6 µg) from a lysate from COS-7 cells (negative control; COS) or from COS-7 cells transiently transfected with a plasmid encoding for the indicated NTPDases were loaded on a NuPAGE® Novex® Bis-Tris 4-12% gel under non-reducing conditions, transferred to an Immobilon-P membrane and incubated with hN2-H9_s. A specific band is detected at the right molecular weight.

h: human; m: mouse; r: rat.

N1, N2, N3, N8: NTPDase1, -2, -3, -8, respectively.

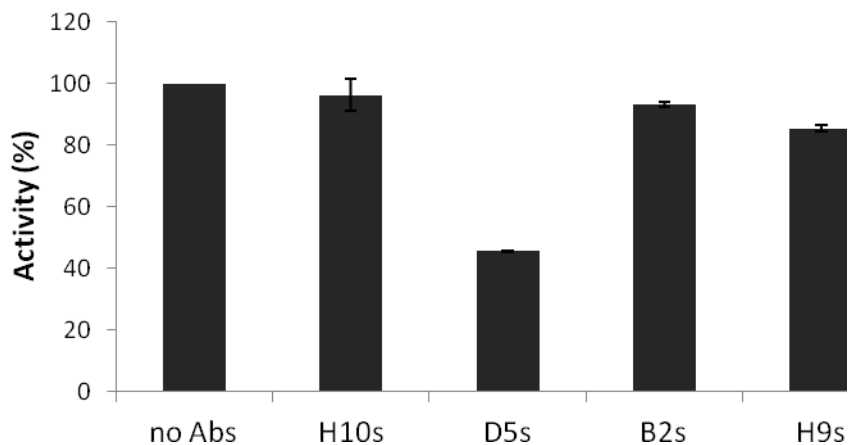
Immunocytochemistry¹



Immunocytochemistry of COS-7 cells transfected with a plasmid encoding human NTPDase2 incubated with the indicated monoclonal antibodies supernatant or a mouse IgG (negative control; ctrl). A strong signal is observed with the monoclonal antibodies at the surface of the cells expressing human NTPDase2. No signal is detected in the negative control.

Nuclei are stained with hematoxylin (blue).

Inhibition of the enzymatic activity



ATPase activity was tested with cell lysates from COS-7 cells transfected with human NTPDase2 in presence or absence of the monoclonal antibodies hN2-H10s, -D5s, -B2s, -H9s at a concentration of 5 µg/mL. Monoclonal antibody hN2-D5s inhibit human NTPDase2.

Storage

Purified antibodies can be kept at 4°C for generally up to a year. Supernatants can be kept at -20°C until use. Please avoid freeze-thaw cycles. Once an aliquot is thawed keep it at 4°C.