

NT5E/CD73 (D7F9A) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-Bond, IHC-P	H M R	Endogenous	70	Rabbit IgG	#P21589	4907

Product Usage Information**Application**

Western Blotting
IHC Leica Bond
Immunohistochemistry (Paraffin)

Dilution

1:1000
1:50 - 1:200
1:100 - 1:400

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #87661.

Specificity/Sensitivity

NT5E/CD73 (D7F9A) Rabbit mAb recognizes endogenous levels of total NT5E/CD73 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human NT5E/CD73 protein.

Background

Ecto-5'-nucleotidase (NT5E, also called CD73) is a 70 kDa glycosyl phosphatidylinositol-anchored, membrane-bound glycoprotein that catalyzes the hydrolysis of extracellular nucleoside monophosphates into bioactive nucleosides (1). NT5E catalyzes the terminal step of extracellular adenosine formation from adenosine monophosphate, which drives the regulation of extracellular adenosine levels and the downstream activation of the four G protein-coupled adenosine receptors (2). Binding of hypoxia-inducible factor (HIF-1) to the NT5E gene promoter leads to upregulation of NT5E during hypoxia (3). The biological roles of NT5E include lymphocyte adhesion (4,5), fibrosis (6), and the regulation of nociception (7,8).

Background References

1. Le Hir, M. and Kaissling, B. (1993) *Am J Physiol* 264, F377-87.
2. Schulte, G. and Fredholm, B.B. (2003) *Cell Signal* 15, 813-27.
3. Synnestvedt, K. et al. (2002) *J Clin Invest* 110, 993-1002.
4. Arvilommi, A.M. et al. (1997) *Eur J Immunol* 27, 248-54.
5. Airas, L. and Jalkanen, S. (1996) *Blood* 88, 1755-64.
6. Peng, Z. et al. (2008) *Nucleosides Nucleotides Nucleic Acids* 27, 821-4.
7. Sowa, N.A. et al. (2010) *J Neurosci* 30, 2235-44.
8. Zylka, M.J. (2011) *Trends Mol Med* 17, 188-96.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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