## NT5E/CD73 Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 70	Source/Isotype: Rabbit	UniProt ID: #P21589	Entrez-Gene Id 4907
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Sto 20°C. Do not aliquot the antibody.					lycerol. Store at –
Specificity/Sensitivity		NT5E/CD73 Antibody recognizes endogenous levels of total NT5E protein.				
Species predicted to react based on 100% sequence homology		Monkey				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp522 of human NT5E protein. Antibodies are purified by protein A and peptide affinity chromatography.				
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) <i>Am J Physiol</i> 264, F377-87. 2. Schulte, G. and Fredholm, B.B. (2003) <i>Cell Signal</i> 15, 813-27. 3. Synnestvedt, K. et al. (2002) <i>J Clin Invest</i> 110, 993-1002. 4. Arvilommi, A.M. et al. (1997) <i>Eur J Immunol</i> 27, 248-54. 5. Airas, L. and Jalkanen, S. (1996) <i>Blood</i> 88, 1755-64. 6. Peng, Z. et al. (2008) <i>Nucleosides Nucleotides Nucleic Acids</i> 27, 821-4. 7. Sowa, N.A. et al. (2010) <i>J Neurosci</i> 30, 2235-44. 8. Zylka, M.J. (2011) <i>Trends Mol Med</i> 17, 188-96.				
Species Reactivi	ity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Bu	.ee.	IMPORTANT: For was	tara blata ingubata	membrane with diluted	nriman, antibody i	~ F0/ w/v DCA 1V

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

**Cross-Reactivity Key** 

H: Human M: Mouse R: Rat

**Trademarks and Patents** 

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

**Limited Uses** 

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no

force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.