

# Product Datasheet

## NT5C2 Antibody (3C1) - Azide and BSA Free H00022978-M02

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**Publications: 8**

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**H00022978-M02**

NT5C2 Antibody (3C1) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3C1
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4

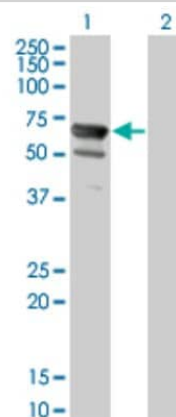
Product Description	
Description	Novus Biologicals Mouse NT5C2 Antibody (3C1) - Azide and BSA Free (H00022978-M02) is a monoclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-NT5C2 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	22978
Gene Symbol	NT5C2
Species	Human
Specificity/Sensitivity	NT5C2 - 5&#039;-nucleotidase, cytosolic II
Immunogen	NT5C2 (AAH01595, 1 a.a. ~ 561 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MSTSWSDRLQNAADMPANMDKHALKKYRREAYHRVFNRS LAMEKIKCFGFD MDYTLAVYKSPEYESLGFELTVERLVSIGYPQELLSFAYDSTFPTRGLVFDTLY GNLLKVDAYGNLLVCAHG FNFIRGPETREQYPNKFIQRDDTERFYILNTLNLPE TYLLACLVDFFTNCPRYTSCETGFKDGLFMSYRSMFQDVRDAVDWVHYKGS LKEKTVENLEKYVVKD GKLPLLLSRMKEVGKVFLATNSDYKYTDKIMTYLDFDP HGPKPGSSHRPWQSYFDLILVDARKPLFFGEGTVLRQVDTKTGKLGKIGTYTGP LQHGVYSGGSSDTICDLLGAKGKDILYIGDHIFGDILKSKKRQGWRTFLVIPELA QELHVWTDKSSLFEELQSLDIFLAELYKHL DSSSNERPDISSIQRRIKKVTHDMD MCYGMMSGSLFRSGSRQTLFASQVMRYADLYAASFINLLYYPFSYLFRAAHVLM PHESTVEHHTVDINEMESPLATRNRTSVDFKDTDYKRHQLTRSISEIKPPNLFPL APQEITHCHDEDDDEEEEEEEEE
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin
Application Notes	Antibody reactive against transfected lysate and recombinant protein for Western Blot. Has also been used for immunohistochemistry (paraffin) and ELISA.

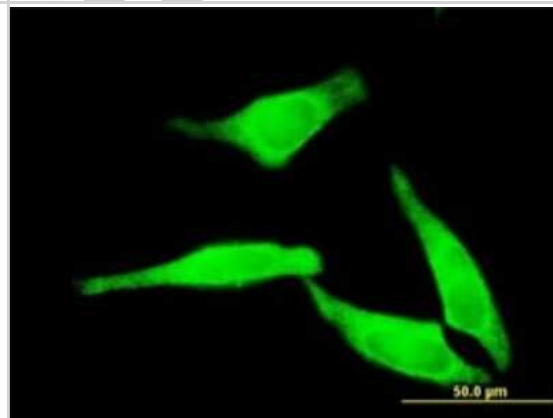


## Images

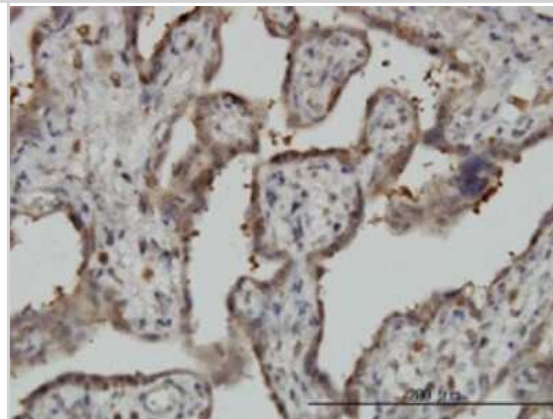
Western Blot: NT5C2 Antibody (3C1) [H00022978-M02] - Analysis of NT5C2 expression in transfected 293T cell line by NT5C2 monoclonal antibody (M02), clone 3C1. Lane 1: NT5C2 transfected lysate(64.97 KDa). Lane 2: Non-transfected lysate.



Immunocytochemistry/Immunofluorescence: NT5C2 Antibody (3C1) [H00022978-M02] - Analysis of monoclonal antibody to NT5C2 on HeLa cell . Antibody concentration 10 ug/ml.



Immunohistochemistry-Paraffin: NT5C2 Antibody (3C1) [H00022978-M02] - Analysis of monoclonal antibody to NT5C2 on formalin-fixed paraffin-embedded human placenta. Antibody concentration 3 ug/ml.



## Publications

Duarte R, Bachtel N, Cotel M et al. The Psychiatric Risk Gene NT5C2 Regulates Adenosine Monophosphate-Activated Protein Kinase Signaling and Protein Translation in Human Neural Progenitor Cells. *Biol Psychiatry*. 2019-03-30 [PMID: 31097295]

Muhammad-Zawwad R, Octavia C, Charles D et al. CD73 and cN-II regulate the cellular response to chemotherapeutic and hypoxic stress in lung adenocarcinoma cells. *Biochim Biophys Acta Gen Subj*. 2021-01-09 [PMID: 33434633]

Cadassou O, Raza MZ, Machon C et al. Enhanced migration of breast and lung cancer cells deficient for cN-II and CD73 via COX-2/PGE2/AKT axis regulation *Cell Oncol (Dordr)* 2020-09-24 [PMID: 32970317]

Schneider C, Oellerich T, Baldauf HM et al. SAMHD1 is a biomarker for cytarabine response and a therapeutic target in acute myeloid leukemia. *Nat Med* 2016-12-19 [PMID: 27991919]

Kulkarni SS, Karlsson HK, Szekeres F et al. Suppression of 5'-Nucleotidase Enzymes Promotes AMP-activated Protein Kinase (AMPK) Phosphorylation and Metabolism in Human and Mouse Skeletal Muscle. *J Biol Chem*. 2011-08-26 [PMID: 21873433]

Cividini F, Tozzi MG, Galli A et al. Cytosolic 5-Nucleotidase II Interacts with the Leucine Rich Repeat of NLR Family Member Ipaf. *PLoS One*. 2015-03-26 [PMID: 25811392]

Jordheim LP, Puy JY, Cros-Perrial E et al. Determination of the enzymatic activity of cytosolic 5'-nucleotidase cN-II in cancer cells: development of a simple analytical method and related cell line models. *Anal Bioanal Chem*. 2015-05-22 [PMID: 25998135]

Cividini F, Cros-Perrial E, Pesi R et al. Cell proliferation and drug sensitivity of human glioblastoma cells are altered by the stable modulation of cytosolic 5'-nucleotidase II. *Int J Biochem Cell Biol*. 2015-06-14 [PMID: 26079827]





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### **Products Related to H00022978-M02**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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