

# Product Datasheet

## Notch-3 Antibody (1G5) - Azide and BSA Free H00004854-M01

Unit Size: 0.1 mg

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

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Updated 2/21/2025 v.20.1

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**H00004854-M01**

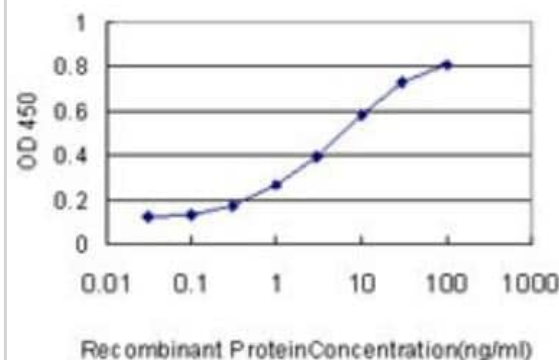
Notch-3 Antibody (1G5) - Azide and BSA Free

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	1G5
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	4854
Gene Symbol	NOTCH3
Species	Human
Specificity/Sensitivity	NOTCH3 - Notch homolog 3 (Drosophila)
Immunogen	NOTCH3 (NP_000426, 47 a.a. ~ 156 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. SPCANGGRCTQLPSREAACLCPPGWVGERCQLEDPCCHSGPCAGRGVCQSS VVAGTARFSCRCPRGFRGPDCSLPDPCLSSPCAHGARCSVGPDGRFLCSCPP GYQGRSCR
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen
Application Notes	Antibody reactivity against Recombinant Protein with GST tag on ELISA and WB. GST tag alone is used as a negative control.



## Images

ELISA: Notch-3 Antibody (1G5) [H00004854-M01] - Detection limit for recombinant GST tagged NOTCH3 is approximately 0.03ng/ml as a capture antibody.



## Publications

- Kenneth G, Yijie G, Andreas G et al. NOTCH3-targeted antibody drug conjugates regress tumors by inducing apoptosis in receptor cells and through transendocytosis into ligand cells. *Cell Rep Med*. 2021-05-18 [PMID: 34095881]
- Shin K, Cha Y, Ban Y et al. Anti-osteoarthritis effect of a combination treatment with human adipose tissue-derived mesenchymal stem cells and thrombospondin 2 in rabbits. *World J Stem Cells*. 2019-12-26 [PMID: 31875872]
- Shodai S, Satoshi H, Taiki M et al. Lunatic fringe promotes the aggregation of CADASIL NOTCH3 mutant proteins. *Biochem Biophys Res Commun*. 2021-04-21 [PMID: 33894418]
- SJ Lee, X Zhang, G Xu, J Borjigin, MM Wang A mid-position NOTCH3 truncation in inherited cerebral small vessel disease may affect the protein interactome *The Journal of Biological Chemistry*, 2022-12-05;0(0):102772. 2022-12-05 [PMID: 36470429]
- Nagatoshi A, Ueda M, Ueda A et al. Serum amyloid P component: A novel potential player in vessel degeneration in CADASIL. *J Neurol Sci* 2017-05-26 [PMID: 28716282]
- Zhang X, Wang YN, Zhu JJ et al. N-acetylcysteine negatively regulates Notch3 and its malignant signaling. *Oncotarget*. 2016-05-24 [PMID: 27102435] (WB, Human)
- Park JT, Shih leM, Wang TL. Identification of Pbx1, a Potential Oncogene, as a Notch3 Target Gene in Ovarian Cancer. *Cancer Res*. 2008-11-01 [PMID: 18974129]
- Watanabe-Hosomi A, Watanabe Y, Tanaka M et al. Transendocytosis is impaired in CADASIL-mutant NOTCH3. *Exp Neurol*. 2011-10-28 [PMID: 22079830]
- Lee SJ, Meng H, Elmadhoun O et al. Cerebral Autosomal Dominant Arteriopathy With Subcortical Infarcts and Leukoencephalopathy Affecting an African American Man: Identification of a Novel 15-Base Pair NOTCH3 Duplication. *Arch Neurol*. 2011-12-01 [PMID: 22159056]
- Tada M, Itoh S, Ishii-Watabe A et al. Functional analysis of the Notch ligand Jagged1 missense mutant proteins underlying Alagille syndrome. *FEBS J*. 2012-04-06 [PMID: 22487239]
- Dong H, Blaivas M, Wang MM. Bidirectional encroachment of collagen into the tunica media in cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy. *Brain Res*. 2012-03-23 [PMID: 22503071]
- Meng H, Zhang X, Lee SJ, Wang MM. Von Willebrand Factor Inhibits Mature Smooth Muscle Gene Expression through Impairment of Notch Signaling. *PLoS One*. 2013-09-23 [PMID: 24086636]
- More publications at <http://www.novusbio.com/H00004854-M01>



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

[www.novusbio.com](http://www.novusbio.com)  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to H00004854-M01**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP2-48812PEP	Notch-3 Recombinant Protein Antigen

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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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