


## Product datasheet

# Anti-NOTCH3 antibody [NIZ 8G5] ab213632

1 Image

### Overview

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|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-NOTCH3 antibody [NIZ 8G5]  |
| <b>Description</b>         | Rat monoclonal [NIZ 8G5] to NOTCH3  |
| <b>Host species</b>        | Rat   |
| <b>Tested applications</b> | <b>Suitable for:</b> WB   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human<br><b>Predicted to work with:</b> Mouse, Rat   |
| <b>Immunogen</b>           | Recombinant full length protein corresponding to Human NOTCH3 aa 1-2321.<br>Database link: <a href="#">Q9UM47</a>   |
| <b>Positive control</b>    | T47D or Jurkat cell extract   |
| <b>General notes</b>       | <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p> |

### Properties

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|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| <b>Storage buffer</b>       | pH: 7.40<br>Preservative: 0.09% Sodium azide<br>Constituent: 99% PBS  |
| <b>Purity</b>               | Protein A purified  |
| <b>Clonality</b>            | Monoclonal  |
| <b>Clone number</b>         | NIZ 8G5   |
| <b>Isotype</b>              | IgG2a   |

## Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab213632 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes  |
|-------------|-----------|--|
| WB          |           | Use a concentration of 2 - 4 µg/ml. Predicted molecular weight: 244 kDa. |

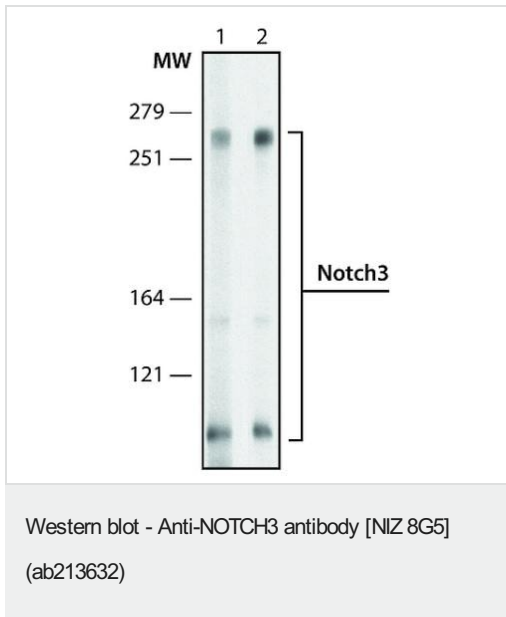
## Target

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|   |   |
|---|---|
| <b>Function</b>                         | Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBPJ/RBPSUH and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs.  |
| <b>Tissue specificity</b>               | Ubiquitously expressed in fetal and adult tissues.  |
| <b>Involvement in disease</b>           | Defects in NOTCH3 are the cause of cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL) [MIM:125310]. CADASIL causes a type of stroke and dementia of which key features include recurrent subcortical ischemic events and vascular dementia. The disorder affects relatively young adults of both sexes. Mutations affect highly conserved cysteine residues within epidermal growth factor (EGF)-like repeat domains in the extracellular part of the receptor.   |
| <b>Sequence similarities</b>            | Belongs to the NOTCH family.<br>Contains 5 ANK repeats.<br>Contains 34 EGF-like domains.<br>Contains 3 LNR (Lin/Notch) repeats.   |
| <b>Post-translational modifications</b> | Synthesized in the endoplasmic reticulum as an inactive form which is proteolytically cleaved by a furin-like convertase in the trans-Golgi network before it reaches the plasma membrane to yield an active, ligand-accessible form. Cleavage results in a C-terminal fragment N(TM) and a N-terminal fragment N(EC). Following ligand binding, it is cleaved by TNF-alpha converting enzyme (TACE) to yield a membrane-associated intermediate fragment called notch extracellular truncation (NEXT). This fragment is then cleaved by presenilin dependent gamma-secretase to release a notch-derived peptide containing the intracellular domain (NICD) from the membrane.<br>Phosphorylated. |
| <b>Cellular localization</b>            | Cell membrane and Nucleus. Following proteolytical processing NICD is translocated to the nucleus.  |

## Images

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**All lanes** : Anti-NOTCH3 antibody [NIZ 8G5] (ab213632) at 0.5 µg/ml

**Lane 1** : T47D cell extract

**Lane 2** : Jurkat cell extract

**Secondary**

**All lanes** : Rabbit Anti-Rat IgG-Peroxidase

**Predicted band size:** 244 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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