

# Product Datasheet

## NFATC1/NFAT2 Antibody - BSA Free NB100-56732

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB100-56732**

NFATC1/NFAT2 Antibody - BSA Free

**Product Information**

|                      |  |
|----------------------|--|
| <b>Unit Size</b>     | 0.1 mg   |
| <b>Concentration</b> | 1.0 mg/ml  |
| <b>Storage</b>       | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| <b>Clonality</b>     | Polyclonal   |
| <b>Preservative</b>  | 0.05% Sodium Azide   |
| <b>Isotype</b>       | IgG  |
| <b>Purity</b>        | Protein G purified   |
| <b>Buffer</b>        | PBS  |

**Product Description**

|                                |  |
|--------------------------------|--|
| <b>Host</b>                    | Rabbit   |
| <b>Gene ID</b>                 | 4772   |
| <b>Gene Symbol</b>             | NFATC1   |
| <b>Species</b>                 | Human, Mouse   |
| <b>Specificity/Sensitivity</b> | The amino acid sequence used is 100% identical in human NFATc1 A, B, C and E isoforms. The reported amino acid size of NFATc1 isoforms are as follows: A - 716 aa, B-825 aa, C-930 aa, and E-812 aa. |
| <b>Immunogen</b>               | Amino acids 264-282 (NKRKYSLNQRQPPYSPHHS) of human NFATc1 were used as immunogen for this antibody.  |

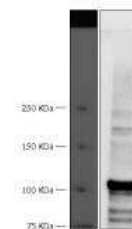
**Product Application Details**

|                              |  |
|------------------------------|--|
| <b>Applications</b>          | Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry  |
| <b>Recommended Dilutions</b> | Western Blot 1-3 ug/ml, Simple Western 1:100, Immunohistochemistry reported in scientific literature (PMID 35167499), Immunocytochemistry/ Immunofluorescence 1:20   |
| <b>Application Notes</b>     | <p>Immunoreactive bands can be blocked by preincubation of NB100-56732 with immunizing peptide. The NFATc1 antibody may detect multiple isoforms of different sizes depending upon testing material.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See <a href="#">Simple Western Antibody Database</a> for Simple Western validation: Tested in RAW lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 43 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.</p> |

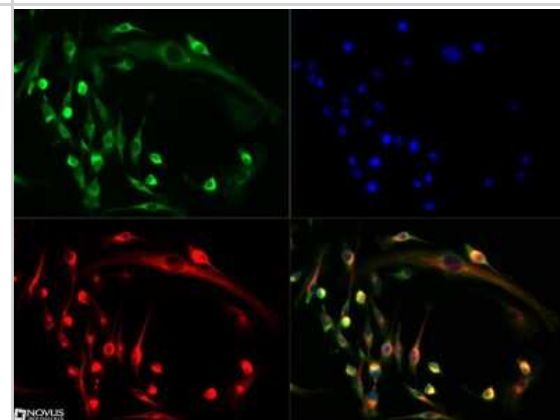


## Images

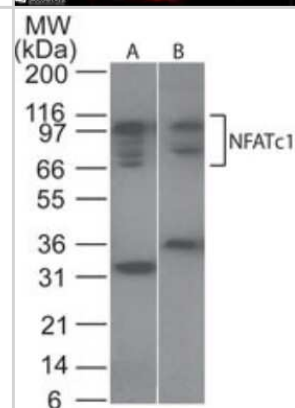
Western Blot: NFATC1/NFAT2 Antibody [NB100-56732] - Immortalized mouse podocytes. Image from verified customer review.



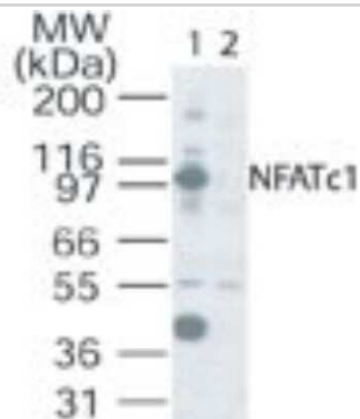
Immunocytochemistry/Immunofluorescence: NFATC1/NFAT2 Antibody [NB100-56732] - NFAT2 antibody was tested in Raw 246.7 cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red). Image objective 40x. An antibody dilution of 1:10 was used.



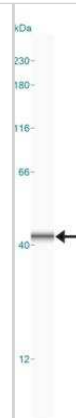
Western Blot: NFATC1/NFAT2 Antibody [NB100-56732] - Analysis of human (A) Ramos and (B) mouse RAW lysate using NFATc1 antibody at 1 ug/ml.



Western Blot: NFATC1/NFAT2 Antibody [NB100-56732] - Analysis of NFATc1 in Ramos cell lysate. (1) Without blocking peptide. (2) With blocking peptide.



Simple Western: NFATC1/NFAT2 Antibody [NB100-56732] - Lane view shows a specific band for NFAT2 in 0.5 mg/ml of RAW lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



## Publications

Sarna NS, Desai SH, Kaufman BG, Curry NM et Al. Enhanced and sustained T cell activation in response to fluid shear stress iScience 2024-06-17 [PMID: 38883838]

Janardhan HP, Dresser K, Hutchinson L, Trivedi CM. Pathological MAPK activation-mediated lymphatic basement membrane disruption causes lymphangiectasia that is treatable with ravoxertinib JCI Insight 2022-09-08 [PMID: 36073544] (Block/Neutralize)

Pham TX, Lee J, Guan J et al. Transcriptional analysis of lung fibroblasts identifies PIM1 signaling as a driver of aging-associated persistent fibrosis JCI insight 2022-02-15 [PMID: 35167499] (IF/IHC, Human)

Song J, Jing ZZ, Hu W et al. alpha-Linolenic Acid Inhibits Receptor Activator of NF-κB Ligand Induced (RANKL-Induced) Osteoclastogenesis and Prevents Inflammatory Bone Loss via Downregulation of Nuclear Factor-KappaB-Inducible Nitric Oxide Synthases (NF-κB-iNOS) Signaling Pathways. Med Sci Monit. 2017-10-24 [PMID: 29061958] (WB, Mouse)

Mack JJ, Mosqueiro TS, Archer BJ et al. NOTCH1 is a mechanosensor in adult arteries Nat Commun. 2017-11-20 [PMID: 29158473] (ICC/IF, Human)



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### **Products Related to NB100-56732**

|            |   |
|------------|---|
| NBL1-13608 | NFATC1/NFAT2 Overexpression Lysate                  |
| HAF008     | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160     | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control                          |

### **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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