

## Mouse anti-Human nmt55 p54nrb Monoclonal Antibody | anti-NONO antibody

Anti-nmt55 p54nrb Antibody (monoclonal, 11E2)

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                                                        |
|-----------|-------|------------|---------------------------------------------------------------------|
| AAA125160 | Mouse | Human      | Flow Cytometry, Functional Assay, Immunocytochemistry, Western Blot |

### PRODUCT SYNONYMS

nmt55 p54nrb; Monoclonal Antibody; Anti-nmt55 p54nrb Antibody (monoclonal; 11E2); Non-POU domain-containing octamer-binding protein; NonO protein; 54 kDa nuclear RNA- and DNA-binding protein; 55 kDa nuclear protein; DNA-binding p52/p100 complex; 52 kDa subunit; NMT55; p54 (nrb); p54nrb; NONO; NRB54; Non-POU domain containing; octamer-binding; anti-NONO antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                               |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                         |
| Reactivity                                     | Human                                                                                                                                                                                                         |
| Clonality                                      | Monoclonal                                                                                                                                                                                                    |
| Isotype                                        | IgG1                                                                                                                                                                                                          |
| Clone Number                                   | 11E2                                                                                                                                                                                                          |
| Specificity                                    | No cross reactivity with other proteins.                                                                                                                                                                      |
| Purity/Purification                            | Immunogen Affinity Purified                                                                                                                                                                                   |
| Form/Format                                    | Lyophilized                                                                                                                                                                                                   |
| Sequence Length                                | 382                                                                                                                                                                                                           |
| Applicable Applications for anti-NONO antibody | FCM/FACS (Flow Cytometry), ICC (Immunocytochemistry), WB (Western Blot)                                                                                                                                       |
| Immunogen                                      | A synthetic peptide corresponding to a sequence at the N-terminus of human nmt55 p54nrb (1-35aa MQSNKTFNLEKQNHTPRKHHQHHQQHHQQQQQQ), identical to the related mouse and rat sequences.                         |
| Reconstitution                                 | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                          |
| Relevant Detection Systems                     | It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for ICC                                            |
| Preparation and Storage                        | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time.<br>Avoid repeated freezing and thawing. |



IHC (Immunohistochemisry)

Figure 3. IHC analysis of nmt55 p54nrb using anti-nmt55 p54nrb antibody (M03515).nmt55 p54nrb was detected in immunocytochemical section of A431 cell. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml mouse anti-nmt55 p54nrb Antibody (M03515) overnight at 4 degree C. Biotinylated goat anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



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WB (Western Blot)

Figure 1. Western blot analysis of nmt55 p54nrb using anti-nmt55 p54nrb antibody (M03515).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human HELA whole cell lysate,Lane 2: human Placent tissue lysate,Lane 3: human MCF-7 whole cell lysate,Lane 4: human A549 whole cell lysate,Lane 5: human SW620 whole cell lysate,Lane 6: human PANC-1 whole cell lysate,Lane 7: human U20S whole cell lysate,Lane 8: human K562 whole cell lysate.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-nmt55 p54nrb antigen affinity purified monoclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-NONO antibody | Description: Mouse IgG monoclonal antibody for nmt55 p54nrb detection. Tested with WB, ICC, FCM in Human. Background: Non-POU domain-containing octamer-binding protein is a protein that in humans is encoded by the NONO gene. This gene encodes an RNA-binding protein which plays various roles in the nucleus, including transcriptional regulation and RNA splicing. A rearrangement between this gene and the transcription factor E3 gene has been observed in papillary renal cell carcinoma. Alternatively spliced transcript variants have been described. Pseudogenes exist on Chromosomes 2 and 16. |
| References                                         | 1. "Entrez Gene: NONO Non-POU domain containing, octamer-binding". 2. Dong B, Horowitz DS, Kobayashi R, Krainer AR (Oct 1993). "Purification and cDNA cloning of HeLa cell p54nrb, a nuclear protein with two RNA recognition motifs and extensive homology to human splicing factor PSF and Drosophila NONA/BJ6". Nucleic Acids Res. 21 (17): 4085-92. 3. Traish AM, Huang YH, Ashba J, Pronovost M, Pavao M, McAneny DB, Moreland RB (Dec 1997). "Loss of expression of a 55 kDa nuclear protein (nmt55) in estrogen receptor-negative human breast cancer". Diagn. Mol. Pathol. 6 (4): 209-21.                |

NCBI AND UNIPROT INFORMATION

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| NCBI GI #                 | 224028244                                                      |
| NCBI GeneID               | 4841                                                           |
| NCBI Accession #          | NP_001138880.1                                                 |
| NCBI GenBank Nucleotide # | NM_001145408.1                                                 |
| UniProt Accession #       | Q15233; O00201; P30807; Q12786; Q9BQC5; B7Z4C2; D3DVV4; F5GYZ3 |
| Molecular Weight          | 43,866 Da                                                      |

|                                  |                                                             |
|----------------------------------|-------------------------------------------------------------|
| NCBI Official Full Name          | non-POU domain-containing octamer-binding protein isoform 1 |
| NCBI Official Synonym Full Names | non-POU domain containing octamer binding                   |
| NCBI Official Symbol             | NONO                                                        |
| NCBI Official Synonym Symbols    | P54; NMT55; NRB54; MRXS34; P54NRB; PPP1R114                 |
| NCBI Protein Information         | non-POU domain-containing octamer-binding protein           |
| UniProt Protein Name             | Non-POU domain-containing octamer-binding protein           |
| UniProt Gene Name                | <b>NONO</b>                                                 |
| UniProt Synonym Gene Names       | NRB54; NonO protein; p54nrb                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/nmt55-p54nrb-antibody-clone-11e2-flow-cytometry-immunocytochemistry-western-blot-elisa/125160>