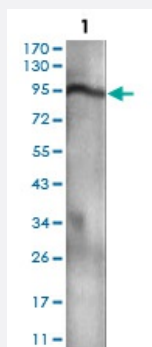


# NBN monoclonal antibody, clone 7E4C2

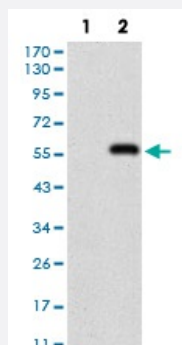
Catalog # MAB17791      Size 100 ug

## Applications



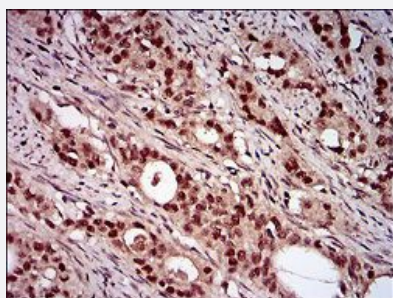
### Western Blot (Cell lysate)

Western blot analysis of Jurkat cell with NBN monoclonal antibody.



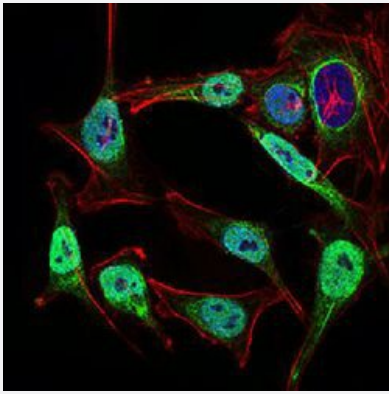
### Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) NBN-hlgGfC transfected HEK293 cell lysate with NBN monoclonal antibody.



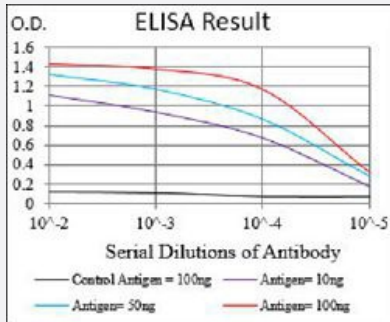
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded cervical cancer tissue with NBN monoclonal antibody.



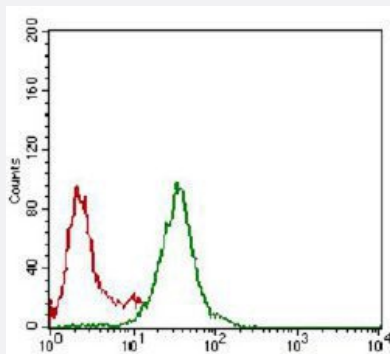
### Immunocytochemistry

Immunocytochemical staining of HeLa cells with NBN monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).



### Enzyme-linked Immunoabsorbent Assay

ELISA analysis of NBN monoclonal antibody, clone 7E4C2.



### Flow Cytometry

Flow cytometric analysis of HeLa cells with NBN monoclonal antibody (green) and negative control (red).

## Specification

|                      |                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------|
| Product Description  | Mouse monoclonal antibody raised against recombinant human NBN.                             |
| Immunogen            | Recombinant protein corresponding to amino acids 467-615 of human NBN from <i>E. coli</i> . |
| Host                 | Mouse                                                                                       |
| Theoretical MW (kDa) | 85                                                                                          |
| Reactivity           | Human                                                                                       |
| Form                 | Liquid                                                                                      |
| Isotype              | IgG2a                                                                                       |

|                            |                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommend Usage</b>     | ELISA (1:10000)<br>Flow Cytometry (1:200-1:400)<br>Immunocytochemistry (1:200-1:1000)<br>Immunohistochemistry (1:200-1:1000)<br>Western Blot (1:500-1:2000)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In PBS (0.05% sodium azide).                                                                                                                                                                                                      |
| <b>Storage Instruction</b> | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                            |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                                                            |

## Applications

- Western Blot (Cell lysate)

Western blot analysis of Jurkat cell with NBN monoclonal antibody.

- Western Blot (Transfected lysate)

Western blot analysis of (1) HEK293 cells, (2) NBN-hlgGfc transfected HEK293 cell lysate with NBN monoclonal antibody.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of paraffin-embedded cervical cancer tissue with NBN monoclonal antibody.

- Immunocytochemistry

Immunocytochemical staining of HeLa cells with NBN monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments labeled with Alexa Fluor-555 phalloidin (red).

- Enzyme-linked Immunoabsorbent Assay

ELISA analysis of NBN monoclonal antibody, clone 7E4C2.

- Flow Cytometry

Flow cytometric analysis of HeLa cells with NBN monoclonal antibody (green) and negative control (red).

## Gene Info — NBN

**Entrez GeneID** [4683](#)

**Gene Name** NBN

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Alias         | AT-V1, AT-V2, ATV, FLJ10155, MGC87362, NBS, NBS1, P95                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Gene Description   | nibrin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Omim ID            | <a href="#">251260 602667</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Gene Summary       | Mutations in this gene are associated with Nijmegen breakage syndrome, an autosomal recessive chromosomal instability syndrome characterized by microcephaly, growth retardation, immunodeficiency, and cancer predisposition. The encoded protein is a member of the MRE11/RAD50 double-strand break repair complex which consists of 5 proteins. This gene product is thought to be involved in DNA double-strand break repair and DNA damage-induced checkpoint activation. [provided by RefSeq] |
| Other Designations | Nijmegen breakage syndrome 1 (nibrin) cell cycle regulatory protein p95 p95 protein of the MRE11/RAD50 complex                                                                                                                                                                                                                                                                                                                                                                                      |

## Pathway

- [Homologous recombination](#)

## Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Astrocytoma](#)
- [Ataxia telangiectasia](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Central Nervous System Neoplasms](#)
- [Chromosomal Instability](#)
- [Chromosome Aberrations](#)
- [Chromosome Breakage](#)

- [Chromosome Deletion](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colorectal Neoplasms](#)
- [Disease Progression](#)
- [DNA Damage](#)
- [DNA Repair-Deficiency Disorders](#)
- [Esophageal Neoplasms](#)
- [Gastrointestinal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Genital Neoplasms](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hematologic Diseases](#)
- [Hematologic Neoplasms](#)
- [Hodgkin Disease](#)
- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malignant melanoma](#)
- [Medulloblastoma](#)
- [Melanoma](#)
- [Meningeal Neoplasms](#)

- [Meningioma](#)
- [Mouth Neoplasms](#)
- [Multiple Sclerosis](#)
- [Neoplasms](#)
- [Neuroma](#)
- [Nijmegen Breakage Syndrome](#)
- [Obesity](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pancreatic Neoplasms](#)
- [Parkinson disease](#)
- [Polycystic Ovary Syndrome](#)
- [Precancerous Conditions](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Syndrome](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)

- [Uterine Cervical Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)