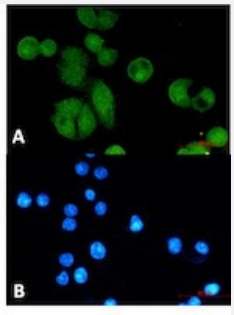
RecomAb™

NBN recombinant monoclonal antibody, clone R04-7C7

Catalog # RAB02027 Size 100 uL

Applications



Immunocytochemistry

Immunocytochemical staining of MCF-7 with NBN recombinant monoclonal antibody, clone R04-7C7 (Cat # RAB02027). (A) NBN (green) and (B) DAPI (blue).



Western Blot

Western blot analysis of Hela lysates with NBN recombinant monoclonal antibody, clone R04-7C7 (Cat # RAB02027).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human NBN.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human NBN.
Theoretical MW (kDa)	Calculated MW: 85 kD
Reactivity	Human
Form	Liquid

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Preparation Method	Mammalian cell (CHO) expression system
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunocytochemistry Immunofluorescence (1:50-1:200) Immunoprecipitation (1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA).
Storage Instruction	Store at -20 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunofluorescence
- Immunocytochemistry

  Immunocytochemical staining of MCF-7 with NBN recombinant monoclonal antibody, clone R04-7C7 (Cat # RAB02027). (A) NBN (green) and (B) DAPI (blue).

- Immunoprecipitation
- Western Blot

  Western blot analysis of Hela lysates with NBN recombinant monoclonal antibody, clone R04-7C7 (Cat # RAB02027).

Gene Info — NBN

Entrez GeneID	4683
Protein Accession#	O60934
Gene Name	NBN
Gene Alias	AT-V1, AT-V2, ATV, FLJ10155, MGC87362, NBS, NBS1, P95
Gene Description	nibrin

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Omim ID	251260 602667
Gene Ontology	Hyperlink
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

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- 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

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- 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

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- Werner syndrome

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