Anti-p95/NBS1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R011182

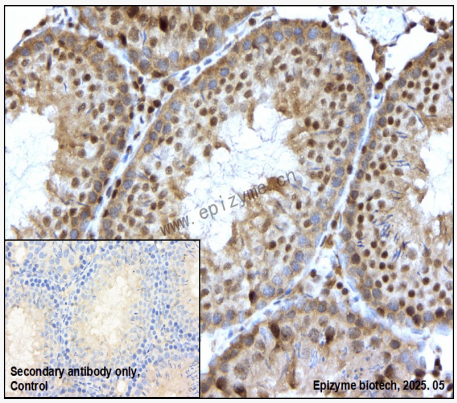
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	58M43K29
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human p95 NBS1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-p95/NBS1 Rabbit mAb [58M43K29] is for research use only and not for use in diagnostic or therapeutic procedures.

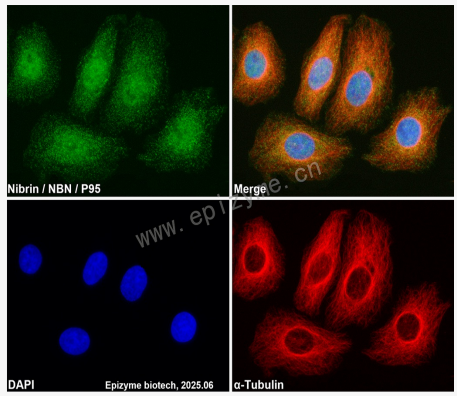
Protein Information

Synonyms	AT V1; AT V2; ATV; Cell cycle regulatory protein p95; FLJ10155; MGC87362; Nbn; NBN_HUMAN; NBS 1; NBS; NBS1; Nibrin; Nijmegen breakage syndrome 1 (nibrin); Nijmegen breakage syndrome; Nijmegen breakage syndrome protein 1; p95; p95 protein of the MRE11/RAD50 complex.
Calculated MW	Calculated MW: 85 kDa; Observed MW: 95 kDa
Uniprot ID	O60934
Gene ID	4683
Background	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, Jul 2008]
Cellular Location	Nucleus. Nucleus, PML body. Chromosome, telomere. Localizes to discrete nuclear foci after treatment with genotoxic agents.
Tissue Location	Ubiquitous. Expressed at high levels in testis.

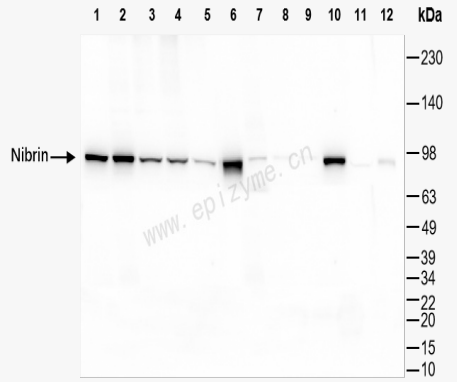
Validation Images



Immunohistochemistry - Anti-p95/NBS1 Rabbit mAb [58M43K29]
Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011182 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-p95/NBS1 Rabbit mAb [58M43K29]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R011182 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-p95/NBS1 Rabbit mAb [58M43K29]
All lanes: R011182 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Huh1 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 4: 293T (Human embryonic kidney cell) whole cell lysates
Lane 5: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates
Lane 6: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 7: Mouse heart whole tissue lysates
Lane 8: Mouse liver whole tissue lysates
Lane 9: Mouse brain whole tissue lysates
Lane 10: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 11: Rat muscle whole tissue lysates
Lane 12: Rat brain whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 85 kDa
Observed band size: 95 kDa
Developed using the ECL technique (Cat. No. SQ201).