

Anti-NBN Antibody (9Z721)

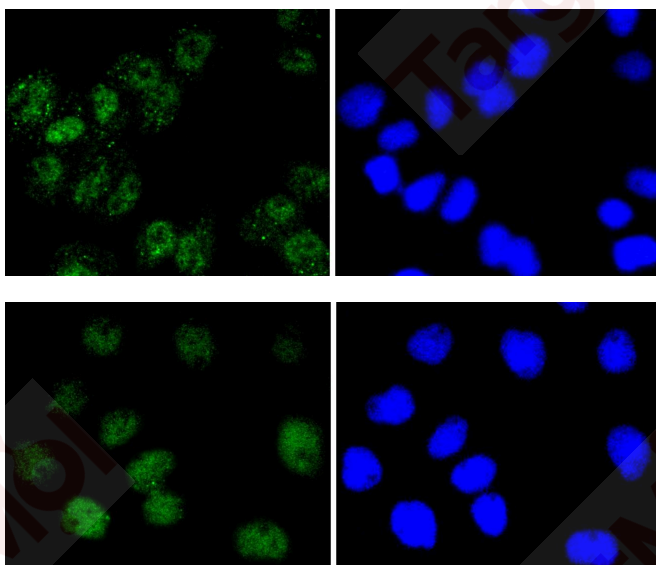
Product Details

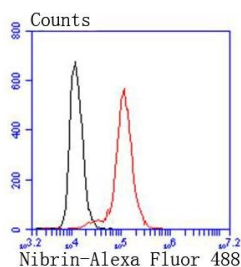
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 95 kDa.
Clone:	9Z721
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of Nibrin on human lung lysates using anti-p95 NBS1 antibody at 1/1,000 dilution.
2. ICC staining p95 NBS1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
3. ICC staining p95 NBS1 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
4. Flow cytometric analysis of Hela cells with p95 NBS1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.





Application: CHIP,FCM,ICC/IF,IHC,IP,WB

Recommended WB: 1:1000; IHC: 1:50; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: O60934

Synonyms: NBS1;p95 protein of the MRE11/RAD50 complex;Nijmegen breakage syndrome 1;p95;FLJ10155; Cell cycle regulatory protein p95;Nibrin;ATV;Nijmegen breakage syndrome;NBS 1;Nijmegen breakage syndrome protein 1;NBS;MGC87362;AT V1;AT V2

Research Background

DNA repair proteins are necessary for the maintenance of chromosome integrity and are involved in the elimination of premutagenic lesions from DNA. The DNA repair proteins Rad51 and Rad52 are key components of the double-strand-break repair (DSBR) pathway. Rad51 is essential for mitotic and meiotic recombination, and its mutation in yeast and mammalian cells results in chromosome loss. Overexpression of Rad52 confers resistance to ionizing radiation and induces homologous intrachromosomal recombination. Rad52 is thought to be involved in an early stage of Rad51-mediated recombination. Additional proteins involved in the pathway include Dmc1 and nibrin. Dmc1 is specifically involved in meiotic recombination. Nibrin, which complexes with Mre11 and Rad50, is absent in Nijmegen breakage syndrome (NBS) patients.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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