

p95/NBS1 (Phospho-S343) polyclonal antibody

Catalog: BS94088

Host: Rabbit

Reactivity: Human

BackGround:

Nijmegen breakage syndrome (NBS) is characterized by extreme radiation sensitivity, chromosomal instability and cancer. These phenotypes are similar to those of ataxia telangiectasia mutated (ATM) disease, where there is a deficiency in a protein kinase that is activated by DNA damage, indicating that the NBS1 (Nibrin) and ATM proteins may participate in common pathways. Nibrin is specifically phosphorylated in response to gamma-radiation, ultraviolet light and exposure to hydroxyurea. The phosphorylation of Nibrin requires catalytically active ATM. ATM physically interacts with and phosphorylates Nibrin on Serine 343 both in vitro and in vivo. Serine 343 is phosphorylated in vitro by ATM and the modification of this residue in vivo is essential for the cellular response to DNA damage. This response includes S-phase checkpoint activation, formation of the NBS1/Mre11/Rad50 nuclear foci and rescue of hypersensitivity to ionizing radiation.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

95 kDa

Swiss-Prot:

O60934(Human)

Purification&Purity:

ProA affinity purified

Applications:

WB:1:1,000-1:2,000

ICC:1:50-1:200

IHC:1:50-1:200

Storage&Stability:

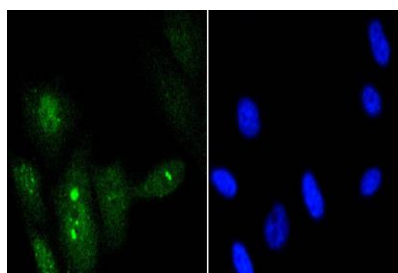
Store at +4 °C after thawing. Aliquot store at -20 °C or

-80 °C. Avoid repeated freeze / thaw cycles.

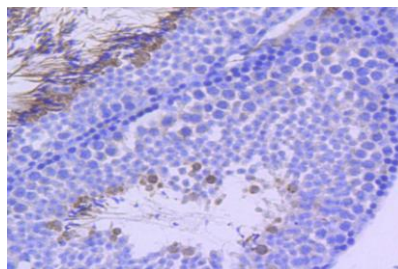
Specificity:

p95/NBS1 (Phospho-S343) polyclonal antibody detects endogenous levels of p95/NBS1 protein only when phosphorylated at S343.

DATA:



ICC staining Phospho-p95/NBS1(S343) in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-Phospho-p95/NBS1(S343) antibody. Counter stained with hematoxylin.

Note:

For research use only, not for use in diagnostic procedure.

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