



COSMO BIO CO., LTD.
Inspiration for Life Science

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Catalog No. **CBX00570**

Mouse monoclonal antibody

Anti-Human NBN

■ Formulation

Mouse monoclonal anti-human **NBN** antibody
in PBS (3.0 mM KCl, 1.5 mM KH_2PO_4 ,
140 mM NaCl, 8.0 mM Na_2HPO_4 (pH 7.4))
containing 1% bovine serum albumin (BSA)
and 0.05% sodium azide (NaN_3).

■ Antibody concentration

100 $\mu\text{g}/\text{ml}$ (1.0 ml)

■ Storage

Store at 2-8°C for up to one year.
We recommend storing at -20°C for long-term storage.
Avoid repeat freezing and thawing cycles.

■ Preparation

This antibody was purified using protein G column
chromatography from culture supernatant of hybridoma
cultured in a medium containing bovine IgG-depleted
(approximately 95%) fetal bovine serum.

■ Sterility

Filtered through a 0.22 μm membrane.

■ Applications

WB, IC, Dot Blot

■ Disposal

This antibody solution contains sodium azide (NaN_3)
as a preservative. There is a potential hazard that
 NaN_3 reacts with copper or lead to produce an expl-
osive compound. For safe disposal, the vial has to
be washed thoroughly with water.

■ Safety warnings and precautions

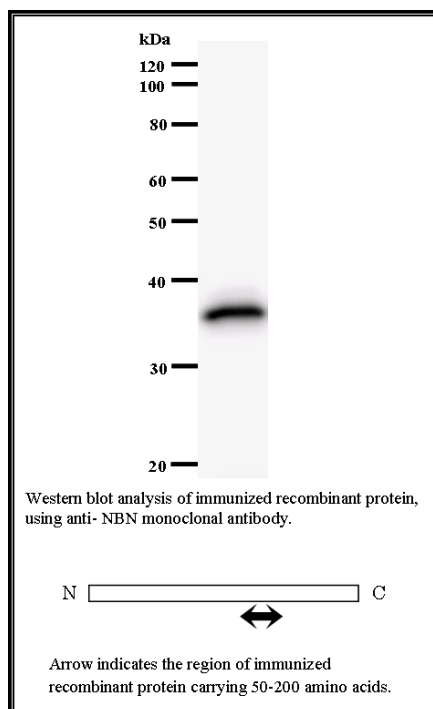
Caution must be taken to avoid contact with skin or eyes. In such a case, rinse thoroughly at once with water.
Do not ingest, inhale, or swallow. Seek medical attention immediately.
Wear appropriate protective clothing such as laboratory overalls, safety glasses and gloves.
It is strongly advised that this product should be handled by people who have been well trained in
laboratory techniques and that it is handled with care pursuant to the principles of good laboratory practice.
All chemicals are deemed potentially harmful.
The vial is prone to fall over. Use caution, especially when the lid is off.

Lot No. 2612D3a-1

Clone No. 2612D3a

Antibody class : IgG1

Immunogen : Recombinant



FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC PROCEDURES.

manufactured by BMR



Catalog No. CBX00570

Mouse monoclonal antibody

Anti-Human NBN

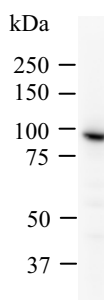
■ Background

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. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [NCBI Entrez Gene Summary]

■ Recommended condition

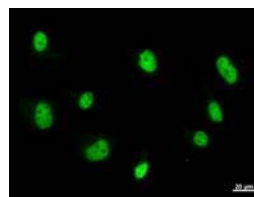
WB: 0.2-2 µg/ml IC: 2-100 µg/ml

■ Application



Detection of human NBN by Western blot.
Samples: Whole cell lysate (25 µg) from HeLa cells. [Lot No. 2612D3a-1]

Predicted molecular weight: 84 kDa



Immunostaining analysis in HeLa cells. HeLa cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100 in PBS. The cells were immunostained with anti-NBN mAb. [Lot No. 2612D3a-1]