IDENTiFYN®

# CERTIFICATE OF ANALYSIS

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|---|---|
| Catalog Number | PA-RR 000015 |
| Batch Number(s): | PA-B-0001-RR-NBS1 |
| Product Name | Rabbit anti-Human NBS1 (P95) Recombinant Monoclonal (BLR040P) |

## PRODUCT SPECIFICATION

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|---|---|
| Host | Rabbit |
| Colonality | Recombinant Monoclonal |
| Subclass | IgG |
| Immunogen | Peptide sequences between Residues 433 and 483, referencing Uniprot O60934 and Gene ID 4683 |
| Conjugate | Unconjugated |
| Form | Liquid |
| Concentration | 1.00 mg/mL |
| Purification | Affinity chromatography |
| Storage Buffer | Phosphate Buffer Saline, 10mM, pH 7.4 |
| Preservative | Azide |
| Cryopreservative | Glycerol |
| Storage conditions | 4°C. Avoid freeze/thaw cycles |

## APPLICATIONS

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| Western Blotting | 1:250-1:1000 |
| Immunocytochemistry / Microscopy | 1:250-1:1000 |

## PRODUCT DESCRIPTION

The p95 gene, also known as NBS1 or nibrin, is part of the hMre11/hRad50 complex, which is involved in repairing DNA double-strand breaks. This complex is linked to Nijmegen breakage syndrome, a recessive disorder characterized by higher cancer risk, impaired cell cycle checkpoints, and sensitivity to radiation, highlighting a direct connection between DNA repair and cell cycle control.

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|---|---|
| Uniprot ID | O60934 |
| Gene ID | 4683 |
| Gene Symbol | NBS1 |
| Gene Aliases | AT-V1; AT-V2; ATV; hNbs1; NBN; NBS; NBS1; P95 |

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