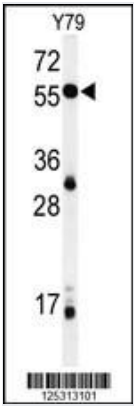
# NOB1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | NOB1, Polyclonal Antibody |
| **Full Product Name** | NOB1, CT (NOB1, ART4, NOB1P, PSMD8BP1, RNA-binding protein NOB1, Phosphorylation regulatory protein HP-10, Protein ART-4) (Azide free) (HRP) |
| **Product Gene Name** | anti-NOB1 antibody |
| **Product Synonym Names** | NOB1; ART4; NOB1P; PSMD8BP1; RNA-binding protein NOB1; Phosphorylation regulatory protein HP-10; Protein ART-4 |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 46,675 Da |
| **OMIM** | 613586 |
| **3D Structure** | ModBase 3D Structure for Q9ULX3 |
| **Immunogen** | NOB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 383~412 amino acids from the C-terminal region of human NOB1. |
| **Conjugate** | HRP |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-NOB1 antibody** | Antibodies; Binding Proteins |
| **Applications Tested/Suitable for anti-NOB1 antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-NOB1 antibody** | WB: 1:100-500<br>ELISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-NOB1 antibody** | MBS6325921 is an antibody targeting NOB1. Also known as NOB1, CT (NOB1, ART4, NOB1P, PSMD8BP1, RNA-binding protein NOB1, Phosphorylation regulatory protein HP-10, Protein ART-4) (Azide free) (HRP). Reactive in Human. Host: Rabbit. |
| **Product References and Citations for anti-NOB1 antibody** | Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007). Olsen, J.V., et al. Cell 127(3):635-648(2006). Zhang, Y., et al. Mol. Biol. Rep. 32(3):185-189(2005). |
| **Other Notes** | Small volumes of anti-NOB1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**Western Blot (WB) of anti-NOB1 antibody**
Western blot analysis of NOB1 Antibody (C-term) in Y79 cell line lysates (35ug/lane). NOB1 (arrow) was detected using the purified Pab.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NOB1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 7661532 |
| **NCBI GeneID** | 28987 |
| **NCBI Accession #** | NP_054781.1 |
| **UniProt Primary Accession #** | Q9ULX3 |
| **UniProt Secondary Accession #** | Q7L6B7; Q7M4M4; Q7Z4B5; Q9NWB0 |
| **UniProt Related Accession #** | Q9ULX3 |
| **GenBank Nucleotide #** | NM_014062.2 |
| **NCBI Official Full Name** | RNA-binding protein NOB1 |
| **NCBI Official Synonym Full Names** | NIN1/RPN12 binding protein 1 homolog (S. cerevisiae) |
| **NCBI Official Symbol** | NOB1 |
| **NCBI Official Synonym Symbols** | ART-4; NOB1P; MST158; MSTP158; PSMD8BP1 |
| **UniProt Protein Name** | RNA-binding protein NOB1 |
| **UniProt Synonym Protein Names** | Phosphorylation regulatory protein HP-10; Protein ART-4 |
| **Protein Family** | 20S-pre-rRNA D-site endonuclease |
| **UniProt Gene Name** | NOB1 |
| **UniProt Synonym Gene Names** | ART4; NOB1P; PSMD8BP1 |
| **UniProt Entry Name** | NOB1_HUMAN |
| **NCBI Protein Information** | RNA-binding protein NOB1; PSMD8 binding protein 1; adenocarcinoma antigen recognized by T lymphocytes 4; nin one binding protein; phosphorylation regulatory protein HP-10; protein ART-4 |
| **NCBI Summary for NOB1** | In yeast, over 200 protein and RNA cofactors are required for ribosome assembly, and these are generally conserved in eukaryotes. These factors orchestrate modification and cleavage of the initial 35S precursor rRNA transcript into the mature 18S, 5.8S, and 25S rRNAs, folding of the rRNA, and binding of ribosomal proteins and 5S RNA. Nob1 is involved in pre-rRNA processing. In a late cytoplasmic processing step, Nob1 cleaves a 20S rRNA intermediate at cleavage site D to produce the mature 18S rRNA (Lamanna and Karbstein, 2009 [PubMed 19706509]).[supplied by OMIM, Nov 2010] |

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| **UniProt Comments for NOB1** | NOB1P: May play a role in mRNA degradation. Belongs to the NOB1 family.<br><br>Protein type: RNA processing<br><br>Chromosomal Location of Human Ortholog: 16q22.3<br><br>Cellular Component: nucleus<br><br>Molecular Function: metal ion binding<br><br>Biological Process: visual perception |
| **Research Articles on NOB1** | **1.** NOB1 depletion may inhibit osteosarcoma development by increasing E-cadherin and beta-catenin expression. |
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