Datasheet for ABIN7318061

# NPM1 Protein (His tag)

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## Overview

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| Quantity: | 100 µg |
| Target: | NPM1 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This NPM1 protein is labelled with His tag. |

## Product Details

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| Purpose: | Recombinant Human NPM1/Nucleophosmin Protein (His Tag) |
| Sequence: | Met 9-Leu 158 |
| Characteristics: | A DNA sequence encoding the human NPM1 isoform 1 (P06748-1) N-terminal segment (Met 9-Leu 158) was expressed, with a polyhistide tag at the N-terminus. |
| Purity: | > 90 % as determined by reducing SDS-PAGE. |

## Target Details

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| Target: | NPM1 |
| Alternative Name: | NPM1/Nucleophosmin (NPM1 Products) |
| Background: | Background: Nucleophosmin 1 (NPM1), also known as nucleolar phosphoprotein B23 or numatrin, is a member of the nucleoplasmin family. Nucleophosmin (NPM) is a nucleolar phosphoprotein that plays multiple roles in ribosome assembly and transport, cytoplasmic-nuclear trafficking, centrosome duplication and regulation of p53. The NPM1 gene is frequently |

## Target Details

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| | involved in chromosomal translocation, mutation and deletion. Mutations of the NPM1 gene leading to the expression of a cytoplasmic mutant protein, NPMc+, are the most frequent genetic abnormalities found in acute myeloid leukemias. Acute myeloid leukemias (AML) with mutated NPM1 have distinct characteristics, including a significant association with a normal karyotype, involvement of different hematopoietic lineages, a specific gene-expression profile and clinically, a better response to induction therapy and a favorable prognosis. In addition, NPM1 is a crucial gene to consider in the context of the genetics and biology of cancer. NPM1 is frequently overexpressed, mutated, rearranged and deleted in human cancer. Traditionally regarded as a tumour marker and a putative proto-oncogene, it has now also been attributed with tumour-suppressor functions.<br>Synonym: B23,NPM |
| Molecular Weight: | 17.8 kDa |
| Pathways: | Ribonucleoprotein Complex Subunit Organization, Ribosome Assembly |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Please refer to the printed manual for detailed information. |
| Buffer: | Lyophilized from sterile PBS, pH 6.0 |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |