Datasheet for ABIN7318615

# KPNB1 Protein (His tag)

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## Overview

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| Quantity: | 50 µg |
| Target: | KPNB1 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This KPNB1 protein is labelled with His tag. |

## Product Details

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| Purpose: | Recombinant Human KPNB1 Protein (His Tag) |
| Sequence: | Met 1-Ala876 |
| Characteristics: | Recombinant Human Importin Subunit Beta-1 is produced by our E.coli expression system and the target gene encoding Met1-Ala876 is expressed with a 6His tag at the N-terminus. |
| Purity: | > 85 % as determined by reducing SDS-PAGE. |
| Endotoxin Level: | < 1.0 EU per µg as determined by the LAL method. |

## Target Details

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| Target: | KPNB1 |
| Alternative Name: | KPNB1 (KPNB1 Products) |
| Background: | Background: Importin subunit beta-1(KPNB1) is a member of the importin beta family. KPNB1 contains 1 importin N-terminal domain and 19 HEAT repeats. It is involved in nucleocytoplasmic transport, a signal- and energy-dependent process, takes place through |

## Target Details

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| | nuclear pore complexes embedded in the nuclear envelope. Its functions in nuclear protein import, either in association with an adapter protein, like an importin-alpha subunit, which binds to nuclear localization signals (NLS) in cargo substrates, or by acting as autonomous nuclear transport receptor. The import of proteins containing a classical nuclear localization signal (NLS) requires the NLS import receptor, a heterodimer of importin alpha and beta subunits. Each of these subunits is part of the karyopherin family of proteins. Importin alpha binds the NLS-containing cargo in the cytoplasm and importin beta docks the complex at the cytoplasmic side of the nuclear pore complex. It mediates autonomously the nuclear import of ribosomal proteins RPL23A, RPS7 and RPL5.<br>Synonym: Importin subunit beta-1, Importin-90, Karyopherin subunit beta-1, Nuclear factor p97, Pore targeting complex 97 kDa subunit, PTAC97, KPNB1, NTF97 |
| Molecular Weight: | 98.6 kDa |
| UniProt: | Q14974 |
| Pathways: | Protein targeting to Nucleus |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Frozen, Liquid |
| Buffer: | Supplied as a 0.2 µm filtered solution of 20 mM Tris,1 mM DTT,30 % glycerol,0.1M Nacl, pH 8.0. |
| Storage: | -20 °C |
| Storage Comment: | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |