Datasheet for ABIN7563890

# KPNA1 Protein (AA 1-538) (His tag)

Go to Product page

## Overview

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| Quantity: | 1 mg |
| Target: | KPNA1 |
| Protein Characteristics: | AA 1-538 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This KPNA1 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS) |

## Product Details

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| Purpose: | Custom-made recombinat Kpna1 Protein expressed in mammalien cells. |
| Sequence: | MSTPGKENFR LKSYKNKSLN PDEMRRRREE EGLQLRKQKR EEQLFKRRNV ATAEEETEEE VMSDGGFHEA QINNMEMAPG GVITSDMTDM IFSNSPEQQL SATQKFRKLL SKEPNPPIDE VINTPGVVAR FVEFLKRKEN CTLQFESAWV LTNIASGNSL QTRNVIQAGA VPIFIELLSS EFEDVQEQAV WALGNIAGDS TMCRDYVLNC NILPPLLQLF SKQNRLTMTR NAVWALSNLC RGKSPPPEFA KVSPCLNVLS WLLFVSDTDV LADACWALSY LSDGPNDKIQ AVIDAGVCRR LVELLMHNDY KVVSPALRAV GNIVTGDDIQ TQVILNCSAL QSLLHLLSSP KESIKKEACW TISNITAGNR AQIQTVIDAN MFPALISILQ TAEFRTRKEA AWAITNATSG GSAEQIKYLV ELGCIKPLCD LLTVMDAKIV QVALNGLENI LRLGEQEAKR NGSGINPYCA LIEEAYGLDK IEFLQSHENQ EIYQKAFDLI EHYFGTEDED SSIAPQVDLS QQQYIFQQCE APMEGFQL **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you** |

## Product Details

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| | **have a special request, please contact us.** |
| Characteristics: | Key Benefits:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalien cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. |
| Purity: | > 90 % as determined by Bis-Tris Page, Western Blot |
| Grade: | custom-made |

## Target Details

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| Target: | KPNA1 |
| Alternative Name: | Kpna1 (KPNA1 Products) |
| Background: | Importin subunit alpha-5 (Importin alpha-S1) (Karyopherin subunit alpha-1) (Nucleoprotein interactor 1) (NPI-1) (RAG cohort protein 2) (SRP1-beta),FUNCTION: Functions in nuclear protein import as an adapter protein for nuclear receptor KPNB1 (PubMed:8631802). Binds specifically and directly to substrates containing either a simple or bipartite NLS motif (PubMed:8631802). Docking of the importin/substrate complex to the nuclear pore complex (NPC) is mediated by KPNB1 through binding to nucleoporin FxFG repeats and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism (PubMed:8631802). At the nucleoplasmic side of the NPC, Ran binds to importin-beta and the three components separate and importin-alpha and -beta are re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran from importin (PubMed:8631802). The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus (PubMed:8631802). |

## Target Details

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| | {ECO:0000269\|PubMed:8631802}. |
| Molecular Weight: | 60.2 kDa |
| UniProt: | Q60960 |
| Pathways: | M Phase, Protein targeting to Nucleus |

## Application Details

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| Application Notes: | In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |

 