Datasheet for ABIN7156129

# anti-KPNA1 antibody (AA 8-538) (HRP)

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## Overview

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| Quantity: | 100 µg |
| Target: | KPNA1 |
| Binding Specificity: | AA 8-538 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This KPNA1 antibody is conjugated to HRP |
| Application: | ELISA |

## Product Details

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| Immunogen: | Recombinant Human Importin subunit alpha-5 protein (8-538AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | >95%, Protein G purified |

## Target Details

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| Target: | KPNA1 |
| Alternative Name: | KPNA1 (KPNA1 Products) |
| Background: | Background: Functions in nuclear protein import as an adapter protein for nuclear receptor KPNB1. Binds specifically and directly to substrates containing either a simple or bipartite NLS |

## Target Details

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| | motif. 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. 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. 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. In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS.<br>Aliases: IMA5_HUMAN antibody, Importin alpha 1 subunit antibody, Importin alpha 5 antibody, Importin alpha S1 antibody, Importin subunit alpha-5, N-terminally processed antibody, IPO A5 antibody, IPOA 5 antibody, IPOA5 antibody, Karyopherin alpha 1 antibody, Karyopherin alpha 1 subunit antibody, Karyopherin subunit alpha-1 antibody, KPNA 1 antibody, KPNA1 antibody, mSRP 1 antibody, mSRP1 antibody, NPI 1 antibody, NPI-1 antibody, NPI1 antibody, Nucleoprotein interactor 1 antibody, RAG cohort protein 2 antibody, RCH 2 antibody, RCH2 antibody, Recombination activating gene cohort 2 antibody, SRP 1 antibody, SRP1 beta antibody, SRP1-beta antibody |
| UniProt: | P52294 |
| Pathways: | M Phase, Protein targeting to Nucleus |

## Application Details

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| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | Preservative: 0.03 % Proclin 300<br>Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4 |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C,-80 °C |

## Handling

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| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |