Datasheet for ABIN7599522

# anti-HAP1 antibody (AA 1-671)

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## Overview

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| Quantity: | 100 µg |
| Target: | HAP1 |
| Binding Specificity: | AA 1-671 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This HAP1 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS) |

## Product Details

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| Purpose: | Anti-HAP1 Antibody Picoband® |
| Immunogen: | E.coli-derived human HAP1 recombinant protein (Position: M1-R671). |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins. |
| Characteristics: | Anti-HAP1 Antibody Picoband® (ABIN7599522). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | HAP1 |
| Alternative Name: | HAP1 (HAP1 Products) |
| Background: | Synonyms: Deoxycytidine kinase, dCK, DCK,<br>Tissue Specificity: Expressed in kidney, skeletal muscles, liver, lung, breast, intestine, placenta and skin mainly in epithelial cells (at protein level).<br>Background: Huntingtin-associated protein 1 (HAP1) is a protein which in humans is encoded by the HAP1 gene. Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. This gene encodes a protein that interacts with huntingtin, with two cytoskeletal proteins (dynactin and pericentriolar autoantigen protein 1), and with a hepatocyte growth factor-regulated tyrosine kinase substrate. The interactions with cytoskeletal proteins and a kinase substrate suggest a role for this protein in vesicular trafficking or organelle transport. Several alternatively spliced transcript variants encoding different isoforms have been described for this gene. |
| Molecular Weight: | 80 kDa |
| Gene ID: | 9001 |
| UniProt: | P54257 |
| Pathways: | Cell RedoxHomeostasis, Smooth Muscle Cell Migration, Positive Regulation of Response to DNA Damage Stimulus |

## Application Details

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| Application Notes: | Western blot, 0.25-0.5 µg/mL, Mouse, Rat<br>Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human<br>Flow Cytometry (Fixed), 1-3 µg/1x$10^6$ cells, Human<br>ELISA, 0.1-0.5 µg/mL, -<br>1. Bertaux, F., Sharp, A. H., Ross, C. A., Lehrach, H., Bates, G. P., Wanker, E. HAP1-huntingtin interactions do not contribute to the molecular pathology in Huntington's disease transgenic mice. FEBS Lett. 426: 229-232, 1998. 2. Chan, E. Y. W., Nasir, J., Gutekunst, C.-A., Coleman, S., Maclean, A., Maas, A., Metzler, M., Gertsenstein, M., Ross, C. A., Nagy, A., Hayden, M. R. Targeted disruption of Huntingtin-associated protein-1 (Hap1) results in postnatal death due to depressed feeding behavior. Hum. Molec. Genet. 11: 945-959, 2002. 3. Dragatsis, I., Zeitlin, S., Dietrich, P. Huntingtin-associated protein 1 (Hap1) mutant mice bypassing the early postnatal lethality are neuroanatomically normal and fertile but display growth retardation. Hum. Molec. |

## Application Details

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| | Genet. 13: 3115-3125, 2004. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |