

# NAP1L1 Recombinant Rabbit mAb

Catalog # AP98654

## Product Information

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| <b>Application</b>                      | WB, IHC-P, IHC-F, IF                                                                                                                                                                                                                                                       |
| <b>Primary Accession</b>                | <a href="#">P55209</a>                                                                                                                                                                                                                                                     |
| <b>Other Accession</b>                  | <a href="#">P55209</a>                                                                                                                                                                                                                                                     |
| <b>Host</b>                             | Rabbit                                                                                                                                                                                                                                                                     |
| <b>Clonality</b>                        | Recombinant                                                                                                                                                                                                                                                                |
| <b>Calculated MW</b>                    | 45374                                                                                                                                                                                                                                                                      |
| <b>Physical State</b>                   | Liquid                                                                                                                                                                                                                                                                     |
| <b>Immunogen</b>                        | A synthesized peptide derived from human NAP1L1                                                                                                                                                                                                                            |
| <b>Epitope Specificity</b>              | 1-55/391                                                                                                                                                                                                                                                                   |
| <b>Isotype</b>                          | IgG                                                                                                                                                                                                                                                                        |
| <b>Purity</b>                           | affinity purified by Protein A                                                                                                                                                                                                                                             |
| <b>Buffer</b>                           | 10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.                                                                                                                                                           |
| <b>SIMILARITY</b>                       | Belongs to the nucleosome assembly protein (NAP) family.                                                                                                                                                                                                                   |
| <b>Post-translational modifications</b> | Polyglutamylated by TTLL4, a modification that occurs exclusively on glutamate residues and results in polyglutamate chains on the gamma-carboxyl group. Some residues may also be monoglycylated but not polyglycylated due to the absence of functional TTLL10 in human. |
| <b>Important Note</b>                   | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                  |
| <b>Background Descriptions</b>          | May be involved in modulating chromatin formation and contribute to regulation of cell proliferation.                                                                                                                                                                      |

## Additional Information

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| <b>Gene ID</b>     | 4673                                                                                                                                                                                                                                 |
| <b>Other Names</b> | NAP1; NAP1L; NRP; D10Ert68e; NAP-1; NP1L1_HUMAN; NAP1L1; NAP-1-related protein (hNRP); NP1L1_MOUSE; Brain protein DN38; NAP-1-related protein; NP1L1_RAT; nucleosome assembly protein 1 like 1; nucleosome assembly protein 1-like 1 |
| <b>Dilution</b>    | WB=1:500-2000,Flow-Cyt=1:50-100,ICC/IF=1:50-200,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500                                                                                                                                         |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                                      |

## Protein Information

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| <b>Name</b>              | NAP1L1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>          | NRP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Function</b>          | Histone chaperone that plays a role in the nuclear import of H2A-H2B and nucleosome assembly (PubMed: <a href="#">20002496</a> , PubMed: <a href="#">21211722</a> , PubMed: <a href="#">26841755</a> ). Also participates in several important DNA repair mechanisms: greatly enhances ERCC6-mediated chromatin remodeling which is essential for transcription-coupled nucleotide excision DNA repair (PubMed: <a href="#">28369616</a> ). Also stimulates homologous recombination (HR) by RAD51 and RAD54 which is essential in mitotic DNA double strand break (DSB) repair (PubMed: <a href="#">24798879</a> ). Plays a key role in the regulation of embryonic neurogenesis (By similarity). Promotes the proliferation of neural progenitors and inhibits neuronal differentiation during cortical development (By similarity). Regulates neurogenesis via the modulation of RASSF10; regulates RASSF10 expression by promoting SETD1A-mediated H3K4 methylation at the RASSF10 promoter (By similarity). |
| <b>Cellular Location</b> | Nucleus. Chromosome {ECO:0000250 UniProtKB:P28656}. Melanosome. Cytoplasm. Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Tissue Location</b>   | Ubiquitously expressed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.