# Rabbit anti-Human, Mouse CENPU Polyclonal Antibody | anti-CENPU antibody

CENPU Antibody

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA323385** | **Rabbit** | **Human, Mouse** | **ELISA, Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

CENPU; Polyclonal Antibody; CENPU Antibody; CENP U; CENP-50; CENP-U; CENP50; CENPU_HUMAN; CENPU50; centromere protein of 50 kDa; Centromere protein U; FLJ23468; HHV8 LNAIP1; ICEN24; Interphase centromere complex protein 24; Kaposi Sarcoma Herpesvirus latent nuclear antigen interacting protein 1; KLIP-1; KLIP1; KSHV latent nuclear antigen interacting protein 1; KSHV latent nuclear antigen-interacting protein 1; KSHV LNAIP1; LNAIP 1; LNAIP-1; MLF1-interacting protein; MLF1IP; MLF1IP1; PBIP1; Polo-box-interacting protein 1; anti-CENPU antibody

## PRODUCT SPECIFICATIONS

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| **Host** | Rabbit |
| **Reactivity** | Human, Mouse |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Specificity** | CENPU antibody detects endogenous levels of total CENPU |
| **Purity/Purification** | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| **Form/Format** | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Concentration** | 1mg/ml (varies by lot) |
| **Sequence Length** | 418 |
| **Applicable Applications for anti-CENPU antibody** | ELISA, IHC (Immunohistochemistry), WB (Western Blot) |
| **Immunogen** | A synthesized peptide |
| **Subcellular Location** | Cytoplasm. Nucleus. Chromosome > Centromere > Kinetochore. Localizes in the kinetochore domain of centromeres. Colocalizes with PLK1 at the interzone between the inner and the outer kinetochore plates. |
| **Tissue Specificity** | Expressed at high levels in the testis, fetal liver, thymus, bone marrow and at lower levels in the lymph nodes, placenta, colon and spleen. Present in all cell lines examined, including B-cells, T-cells, epithelial cells and fibroblast cells. Expressed at high levels in glioblastoma cell lines. |
| **Conjugation** | Unconjugated |

## IMAGES

**IHC (Immunohiostchemistry)**
AAA323385 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

**WB (Western Blot)**
Western blot analysis of CENPU expression in A431 whole cell lysate, The lane on the left is treated with the antigen-specific peptide.

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-CENPU antibody** | Description: Component of the CENPA-NAC (nucleosome-associated) complex, a complex that plays a central role in assembly of kinetochore proteins, mitotic progression and chromosome segregation. The CENPA-NAC complex recruits the CENPA-CAD (nucleosome distal) complex and may be involved in incorporation of newly synthesized CENPA into centromeres. Plays an important role in the correct PLK1 localization to the mitotic kinetochores. A scaffold protein responsible for the initial recruitment and maintenance of the kinetochore PLK1 population until its degradation. Involved in transcriptional repression.<br>Subunit Structure: Component of the CENPA-NAC complex, at least composed of CENPA, CENPC, CENPH, CENPM, CENPN, CENPT and CENPU. The CENPA-NAC complex interacts with the CENPA-CAD complex, composed of CENPI, CENPK, CENPL, CENPO, CENPP, CENPQ, CENPR and CENPS. Interacts with the N-terminal domain of Kaposi's sarcoma-associated herpesvirus latent nuclear antigen (LNA). Interacts with MLF1. Interacts with PLK1.<br>Post-translational Modifications: Phosphorylated by PLK1 at Thr-78, creating a self-tethering site that specifically interacts with the polo-box domain of PLK1.<br>Similarity: Belongs to the CENP-U/AME1 family. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 38016935 |
| **NCBI GeneID** | 79682 |
| **NCBI Accession #** | NP_078905.2 |
| **NCBI GenBank Nucleotide #** | NM_024629.3 |
| **UniProt Accession #** | Q71F23; Q09GN2; Q32Q71; Q9H5G1; A2RRD9 |
| **Molecular Weight** | Observed: 48 kDa<br>Predicted: 48 kDa |
| **NCBI Official Full Name** | centromere protein U |
| **NCBI Official Synonym Full Names** | centromere protein U |
| **NCBI Official Symbol** | CENPU |
| **NCBI Official Synonym Symbols** | KLIP1; PBIP1; CENP50; MLF1IP; CENPU50 |
| **NCBI Protein Information** | centromere protein U |
| **UniProt Protein Name** | Centromere protein U |
| **UniProt Gene Name** | **CENPU** |
| **UniProt Synonym Gene Names** | ICEN24; KLIP1; MLF1IP; PBIP1; CENP-U; CENP-50 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/cenpu-antibody-immunohistochemistry-western-blot-elisa/323385