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# UBAC1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5353b

## Product Information

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|---|---|
| **Application** | WB, IHC-P, FC, E |
| **Primary Accession** | Q9BSL1 |
| **Other Accession** | NP_057256.2 |
| **Reactivity** | Human |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB26895 |
| **Calculated MW** | 45338 |
| **Antigen Region** | 264-292 |

## Additional Information

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| **Gene ID** | 10422 |
| **Other Names** | Ubiquitin-associated domain-containing protein 1, UBA domain-containing protein 1, E3 ubiquitin-protein ligase subunit KPC2, Glialblastoma cell differentiation-related protein 1, Kip1 ubiquitination-promoting complex protein 2, UBAC1, GBDR1, KPC2, UBADC1 |
| **Target/Specificity** | This UBAC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 264-292 amino acids from the C-terminal region of human UBAC1. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | UBAC1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | UBAC1 |

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| **Function** | Non-catalytic component of the KPC complex, a E3 ubiquitin- protein ligase complex that mediates polyubiquitination of target proteins, such as CDKN1B and NFKB1 (PubMed:15531880, PubMed:15746103, PubMed:16227581, PubMed:25860612). The KPC complex catalyzes polyubiquitination and proteasome-mediated degradation of CDKN1B during G1 phase of the cell cycle (PubMed:15531880, PubMed:15746103). The KPC complex also acts as a key regulator of the NF-kappa-B signaling by promoting maturation of the NFKB1 component of NF-kappa-B by catalyzing ubiquitination of the NFKB1 p105 precursor (PubMed:25860612). Within the KPC complex, UBAC1 acts as an adapter that promotes the transfer of target proteins that have been polyubiquitinated by RNF123/KPC1 to the 26S proteasome (PubMed:16227581). |
| **Cellular Location** | Cytoplasm |
| **Tissue Location** | Ubiquitous.. |

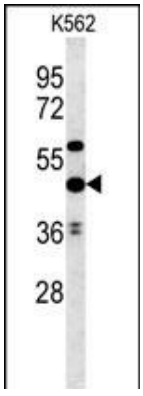
## Background

UBAC1 belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA binding proteins and they complex with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. The protein has two RRM domains that bind to RNAs.

## References

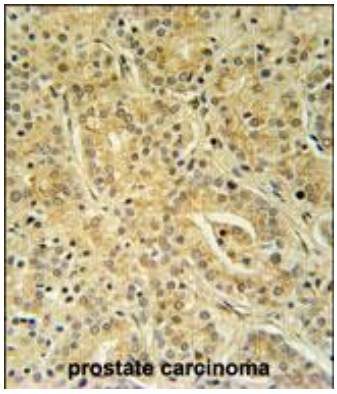
Walker, L.C., et al. Breast Cancer Res. Treat. 112(2):229-236(2008)
Wu, Y.Y., et al. Cell Biochem. Funct. 26(4):467-477(2008)
Reboll, M.R., et al. RNA 13(8):1328-1340(2007)

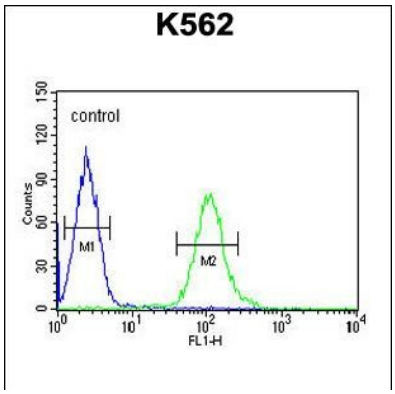
## Images




UBAC1 Antibody (C-term) (Cat. #AP5353b) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the UBAC1 antibody detected the UBAC1 protein (arrow).

UBAC1 Antibody (C-term) (Cat. #AP5353b) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the UBAC1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.




UBAC1 Antibody (C-term) (Cat. #AP5353b) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.