# UBA3 rabbit pAb

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| **Catalog No** | YP-Ab-11531 |
| **Isotype** | IgG |
| **Reactivity** | Human; Mouse;Rat |
| **Applications** | WB |
| **Gene Name** | UBA3 UBE1C |
| **Protein Name** | UBA3 |
| **Immunogen** | Synthesized peptide derived from human UBA3 AA range: 105-155 |
| **Specificity** | This antibody detects endogenous levels of UBA3 at Human/Mouse/Rat |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source** | Polyclonal, Rabbit,IgG |
| **Purification** | The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. |
| **Dilution** | WB 1：500-2000 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | |
| **Observed Band** | |
| **Cell Pathway** | nucleus,cytosol, |
| **Tissue Specificity** | Ubiquitously expressed. |
| **Function** | enzyme regulation:Binding of TP53BP2 to the regulatory subunit NAE1 decreases activity.,function:Catalytic subunit of the dimeric UBA3-NAE1 E1 enzyme. E1 activates NEDD8 by first adenylating its C-terminal glycine residue with ATP, thereafter linking this residue to the side chain of the catalytic cysteine, yielding a NEDD8-UBA3 thioester and free AMP. E1 finally transfers NEDD8 to the catalytic cysteine of UBE2M. Down-regulates steroid receptor activity. Necessary for cell cycle progression.,miscellaneous:Arg-211 acts as a selectivity gate, preventing misactivation of ubiquitin by this NEDD8-specific E1 complex.,pathway:Protein modification; protein neddylation.,similarity:Belongs to the ubiquitin-activating E1 family. UBA3 subfamily.,subunit:Heterodimer of UBA3 and NAE1. Interacts with NEDD8, UBE2F and UBE2M. Binds ESR1 and ESR2 with bound steroid ligand.,tissue specificity:Ubiquitousl |
| **Background** | The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, |

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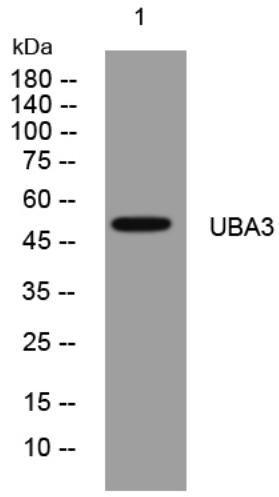
| | ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E1 ubiquitin-activating enzyme family. The encoded enzyme associates with AppBp1, an amyloid beta precursor protein binding protein, to form a heterodimer, and then the enzyme complex activates NEDD8, a ubiquitin-like protein, which regulates cell division, signaling and embryogenesis. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008], |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

## Products Images




Western blot analysis of lysates from A431 cells, primary antibody was diluted at 1:1000, 4°over night