Best Tools for immunology Research

# UBA1 Polyclonal Antibody

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| **Catalog No :** | YT5493 |
| **Reactivity :** | Human;Mouse;Rat |
| **Applications :** | WB;ELISA |
| **Target :** | UBA1 |
| **Fields :** | >>Ubiquitin mediated proteolysis;>>Parkinson disease;>>Pathways of neurodegeneration - multiple diseases |
| **Gene Name :** | UBA1 |
| **Protein Name :** | Ubiquitin-like modifier-activating enzyme 1 |
| **Human Gene Id :** | 7317 |
| **Human Swiss Prot No :** | P22314 |
| **Mouse Gene Id :** | 22201 |
| **Mouse Swiss Prot No :** | Q02053 |
| **Rat Gene Id :** | 314432 |
| **Rat Swiss Prot No :** | Q5U300 |
| **Immunogen :** | The antiserum was produced against synthesized peptide derived from the N-terminal region of human UBA1. AA range:91-140 |
| **Specificity :** | UBA1 Polyclonal Antibody detects endogenous levels of UBA1 protein. |
| **Formulation :** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source :** | Polyclonal, Rabbit,IgG |
| **Dilution :** | WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications. |

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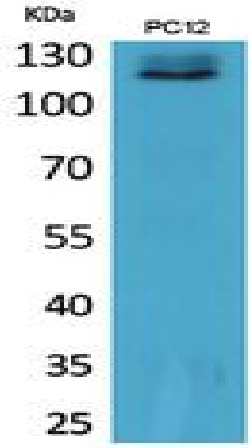
| **Purification :** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Concentration :** | 1 mg/ml |
| **Storage Stability :** | -15°C to -25°C/1 year(Do not lower than -25°C) |
| **Observed Band :** | 118kD |
| **Cell Pathway :** | Ubiquitin mediated proteolysis;Parkinson's disease; |
| **Background :** | The protein encoded by this gene catalyzes the first step in ubiquitin conjugation to mark cellular proteins for degradation. This gene complements an X-linked mouse temperature-sensitive defect in DNA synthesis, and thus may function in DNA repair. It is part of a gene cluster on chromosome Xp11.23. Alternatively spliced transcript variants that encode the same protein have been described. [provided by RefSeq, Jul 2008], |
| **Function :** | disease:Defects in UBA1 are the cause of spinal muscular atrophy X-linked type 2 (SMAX2) [MIM:301830]; also known as X-linked lethal infantile spinal muscular atrophy, distal X-linked arthrogryposis multiplex congenita or X-linked arthrogryposis type 1 (AMCX1). Spinal muscular atrophy refers to a group of neuromuscular disorders characterized by degeneration of the anterior horn cells of the spinal cord, leading to symmetrical muscle weakness and atrophy. SMAX2 is a lethal infantile form presenting with hypotonia, areflexia, and multiple congenital contractures.,function:Activates ubiquitin by first adenylating its C-terminal glycine residue with ATP, and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding an ubiquitin-E1 thioester and free AMP.,miscellaneous:There are two active sites within the E1 molecule, allowing it to accommodate two ubiquitin mo |
| **Subcellular Location :** | Cytoplasm . Mitochondrion . Nucleus .; [Isoform 1]: Nucleus .; [Isoform 2]: Cytoplasm . |
| **Expression :** | Detected in erythrocytes (at protein level). Ubiquitous. |
| **Sort :** | 23843 |
| **No4 :** | 1 |
| **Host :** | Rabbit |
| **Modifications :** | Unmodified |

## Products Images




Western Blot analysis of PC12 cells using UBA1 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000