Best Tools for immunology Research

UBA1 Polyclonal Antibody

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.

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;

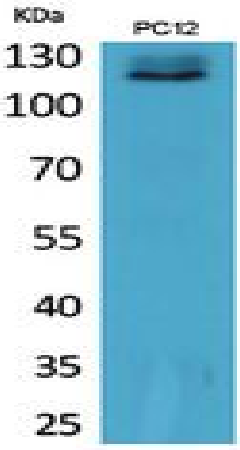
Background : The protein encoded by this gene catalyzes the first step in ubiquitin conjugation to mark cellular proteins for degradation. This gene complements an X-linked mouse temperature-sensitive defect in DNA synthesis, and thus may function in DNA repair. It is part of a gene cluster on chromosome 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.

Products Images



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