

UBA3 rabbit pAb

Catalog No :	YT6896
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	UBA3
Fields :	>>Ubiquitin mediated proteolysis
Gene Name :	UBA3 UBE1C
Protein Name :	UBA3
Human Gene Id :	9039
Human Swiss Prot No :	Q8TBC4
Mouse Gene Id :	22200
Mouse Swiss Prot No :	Q8C878
Rat Gene Id :	117553
Rat Swiss Prot No :	Q99MI7
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
Dilution :	WB 1[?]500-2000
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)

Molecularweight : 51kD

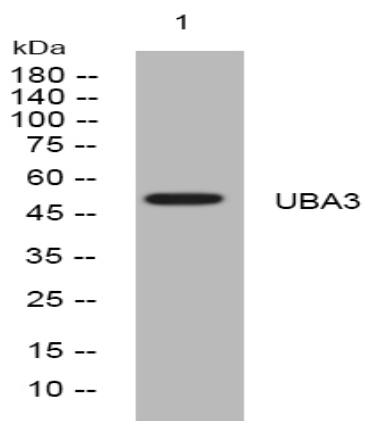
Background : The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein 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],

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

Subcellular Location : nucleus,cytosol,

Expression : Ubiquitously expressed.

Products Images



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