

Product datasheet for **TA339680**

UBE1C (UBA3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB, IHC
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-UBA3 antibody: synthetic peptide directed towards the N terminal of human UBA3. Synthetic peptide located within the following region: EGRWNHVKKFLERSGPFTHPDFEPSTESLQFLDTCVKLVIGAGGLGCEL
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	52 kDa
Gene Name:	ubiquitin like modifier activating enzyme 3
Database Link:	NP_003959 Entrez Gene 9039 Human Q8TBC4



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Background:

UBA3 is a 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. UBA3 down-regulates steroid receptor activity. UBA3 is necessary for cell cycle progression. 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.

Synonyms:

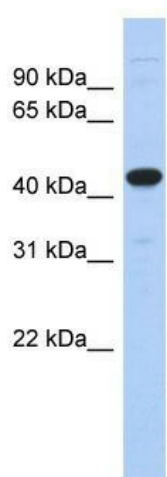
hUBA3; NAE2; UBE1C

Note:

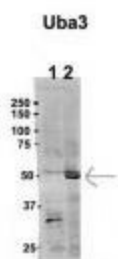
Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Rabbit: 100%; Zebrafish: 86%

Protein Pathways:

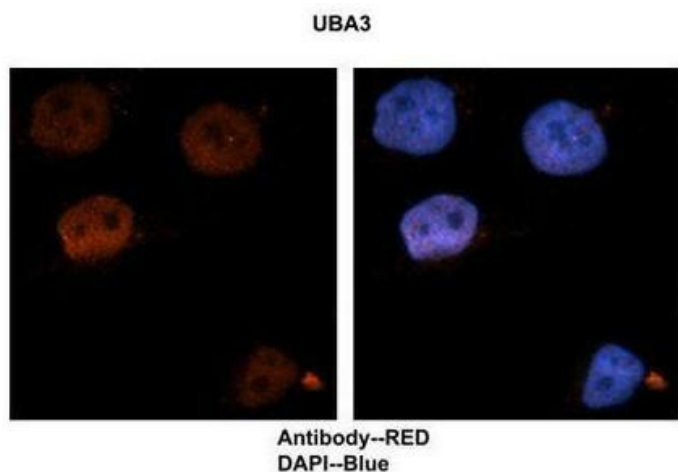
Ubiquitin mediated proteolysis

Product images:

WB Suggested Anti-UBA3 Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1: 1562500; Positive Control: Human Pancreas



Sample Type: 1. Human NT-2 cells (60 ug) 2. mouse brain extracts (80 ug); Primary antibody dilution: 2 ug/ml; Secondary antibody: IRDye 800CW goat anti-rabbit from Li-COR Bioscience; Secondary antibody dilution: 1: 20, 000; Image Submitted by: Yuzhi ChenU



Sample Type: Human brain stem cells Primary Antibody Dilution: 1: 500; Secondary Antibody: Goat anti-rabbit Alexa-Fluor 594; Secondary Antibody dilution: 1: 1000; Color/Signal Descriptions: UBA3: Red DAPI: Blue; Gene Name: UBA3; Submitted by: Dr. Yuzhi Ch