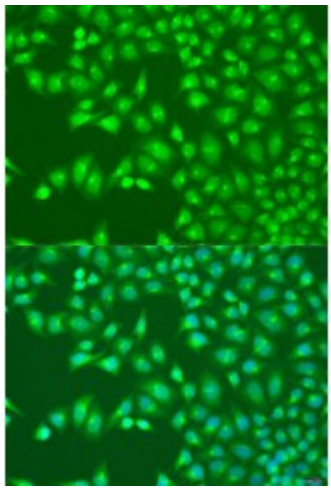
Anti-UBA3 Antibody



Description	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.

Model	STJ117313
Host	Rabbit
Reactivity	Human
Applications	IF
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 234-463 of human UBA3 (NP_003959.3).
Gene ID	9039
Gene Symbol	UBA3
Dilution range	IF 1:50 - 1:200
Tissue Specificity	Ubiquitously expressed
Purification	Affinity purification
Note	For Research Use Only (RUO).

Protein Name	NEDD8-activating enzyme E1 catalytic subunit
Molecular Weight	51.852 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:12470OMIM:603172Reactome:R-HSA-5607761
Alternative Names	NEDD8-activating enzyme E1 catalytic subunit
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,