

ARG59226 anti-UBA3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes UBA3
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Bov, Dog, Hrs, Mk, Rb
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	UBA3
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 409-448 of Human UBA3. (KNRTLQSVTSIEERTRPNLSKTLKELGLVDGQELAVAD)
Conjugation	Un-conjugated
Alternate Names	EC 6.3.2.-; Ubiquitin-activating enzyme E1C; UBE1C; Ubiquitin-like modifier-activating enzyme 3; Ubiquitin-activating enzyme 3; NAE2; hUBA3; NEDD8-activating enzyme E1 catalytic subunit; NEDD8-activating enzyme E1C

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	0.5 - 1 µg/ml
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: By heat mediation. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

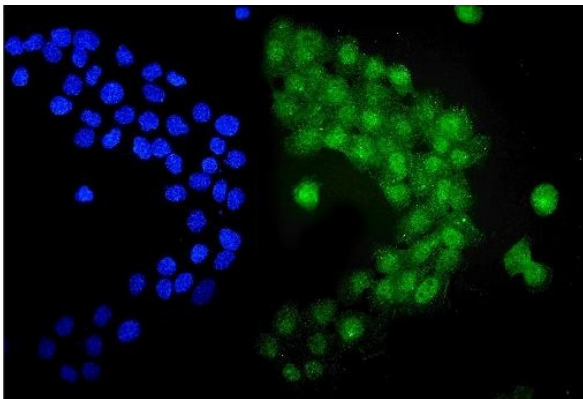
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA

Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

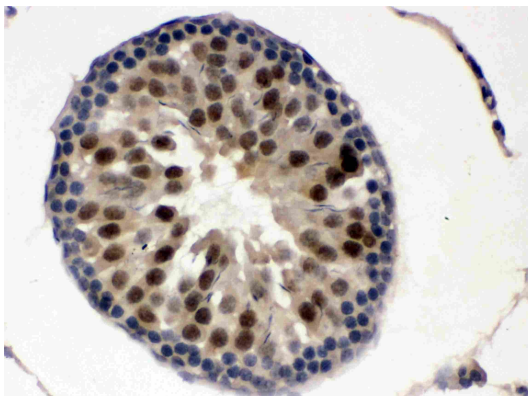
Gene Symbol	UBA3
Gene Full Name	ubiquitin-like modifier activating enzyme 3
Background	The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating 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	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. [UniProt]
Calculated Mw	52 kDa

Images



ARG59226 anti-UBA3 antibody ICC/IF image

Immunofluorescence: A431 cells were blocked with 10% goat serum and then stained with ARG59226 anti-UBA3 antibody (green) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



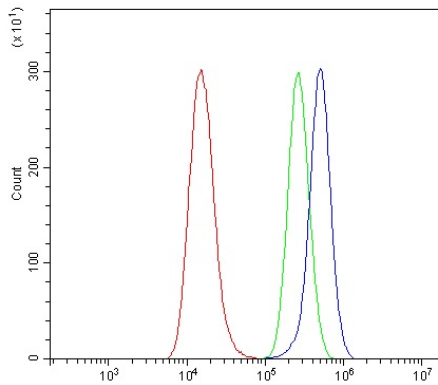
ARG59226 anti-UBA3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse testis stained with ARG59226 anti-UBA3 antibody.



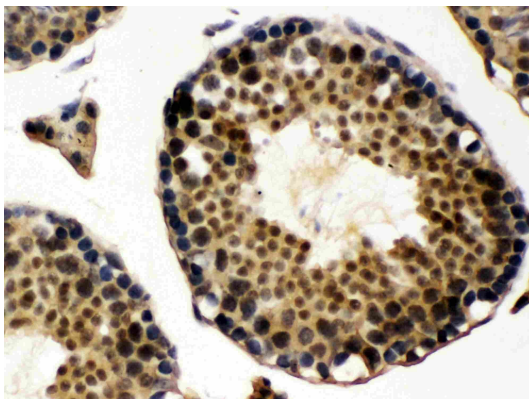
ARG59226 anti-UBA3 antibody WB image

Western blot: 50 μg of Rat brain and 40 μg of HeLa whole cell lysates stained with ARG59226 anti-UBA3 antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.



ARG59226 anti-UBA3 antibody FACS image

Flow Cytometry: A549 cells were blocked with 10% normal goat serum and then stained with ARG59226 anti-UBA3 antibody (blue) at 1 $\mu\text{g}/10^6$ cells for 30 min at 20°C, followed by incubation with DyLight[®]488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 $\mu\text{g}/10^6$ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



ARG59226 anti-UBA3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat testis stained with ARG59226 anti-UBA3 antibody.