

Rabbit UBA52 Polyclonal Antibody | anti-UBA52 antibody

Phospho-UBA52 (Ser65) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329353	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

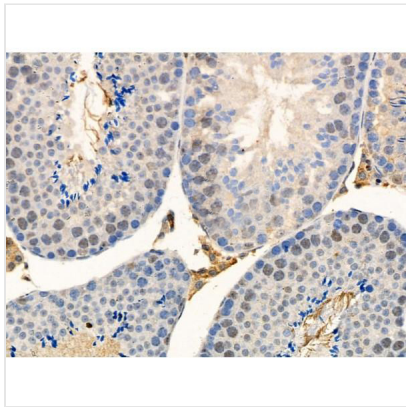
PRODUCT SYNONYMS

UBA52; Polyclonal Antibody; Phospho-UBA52 (Ser65) Antibody; 60S ribosomal protein L40; CEP52; HUBCEP52; L40; MGC126879; MGC57125; RPL40; UBA 52; Ubiquitin 52 amino acid fusion protein; Ubiquitin 60S ribosomal protein L40; Ubiquitin A 52 residue ribosomal protein fusion product 1; Ubiquitin carboxyl extension protein 52; Ubiquitin CEP52; anti-UBA52 antibody

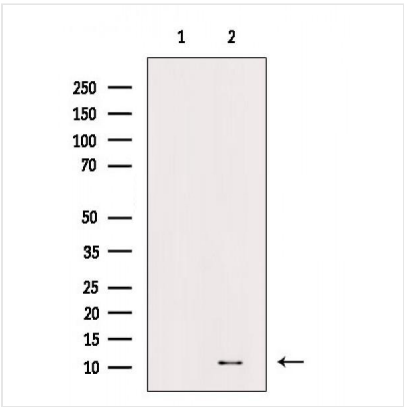
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-UBA52 (Ser65) Antibody detects endogenous levels of UBA52 only when phosphorylated at Ser65.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-UBA52 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human UBA52 around the phosphorylation site of Ser65.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated at Ser-65 by PINK1 during mitophagy. Phosphorylated ubiquitin specifically binds and activates parkin (PRKN), triggering mitophagy. Phosphorylation does not affect E1-mediated E2 charging of ubiquitin but affects discharging of E2 enzymes to form polyubiquitin chains. It also affects deubiquitination by deubiquitinase enzymes such as USP30. Mono-ADP-ribosylated at the C-terminus by PARP9, a component of the PPAR9-DTX3L complex. ADP-ribosylation requires processing by E1 and E2 enzymes and prevents ubiquitin conjugation to substrates such as histones.
Subunit Structure	Ribosomal protein L40 is part of the 60S ribosomal subunit. Interacts with UBQLN1 (via UBA domain).
Similarity	In the N-terminal section; belongs to the ubiquitin family. In the C-terminal section; belongs to the eukaryotic ribosomal protein eL40 family.
Subcellular Location	Cytoplasm. Nucleus. Cytoplasm.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
Staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from P19 cells(lps treatment), using Phospho-UBA52 (Ser65) Antibody. The lane on the left was treated with blocking peptide.Observed bands: 11kDa

ADDITIONAL INFORMATION

Related Product Information for anti-UBA52 antibody	Exists either covalently attached to another protein, or free (unanchored). When covalently bound, it is conjugated to target proteins via an isopeptide bond either as a monomer (monoubiquitin), a polymer linked via different Lys residues of the ubiquitin (polyubiquitin chains) or a linear polymer linked via the initiator Met of the ubiquitin (linear polyubiquitin chains). Polyubiquitin chains, when attached to a target protein, have different functions depending on the Lys residue of the ubiquitin that is linked: Lys-6-linked may be involved in DNA repair; Lys-11-linked is involved in ERAD (endoplasmic reticulum-associated degradation) and in cell-cycle regulation; Lys-29-linked is involved in lysosomal degradation; Lys-33-linked is involved in kinase modification; Lys-48-linked is involved in protein degradation via the proteasome; Lys-63-linked is involved in endocytosis, DNA-damage responses as well as in signaling processes leading to activation of the transcription factor NF-kappa-B. Linear polymer chains formed via attachment by the initiator Met lead to cell signaling. Ubiquitin is usually conjugated to Lys residues of target proteins, however, in rare cases, conjugation to Cys or Ser residues has been observed. When polyubiquitin is free (unanchored-polyubiquitin), it also has distinct roles, such as in activation of protein kinases, and in signaling.Component of the 60S subunit of the ribosome. Ribosomal protein L40 is essential for translation of a subset of cellular transcripts, and especially for cap-dependent translation of vesicular stomatitis virus mRNAs.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	77539055
NCBI GeneID	7311
NCBI Accession #	NP_001029102.1
NCBI GenBank Nucleotide #	NM_001033930.1
UniProt Accession #	P62987; P02248; P02249; P02250; P14793; P62988; Q29120; Q6LBL4; Q6LDU5; Q8WYN8; Q91887; Q91888
Molecular Weight	14,728 Da
NCBI Official Full Name	ubiquitin-60S ribosomal protein L40
NCBI Official Synonym Full Names	ubiquitin A-52 residue ribosomal protein fusion product 1
NCBI Official Symbol	UBA52
NCBI Official Synonym Symbols	L40; CEP52; RPL40; HUBCEP52
NCBI Protein Information	ubiquitin-60S ribosomal protein L40; ubiquitin-CEP52; ubiquitin-52 amino acid fusion protein; ubiquitin carboxyl extension protein 52
UniProt Protein Name	Ubiquitin-60S ribosomal protein L40

UniProt Gene Name	UBA52
UniProt Synonym Gene Names	UBCEP2
UniProt Entry Name	RL40_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
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