

Rabbit RPS27A Polyclonal Antibody | anti-RPS27A antibody

RPS27A Antibody

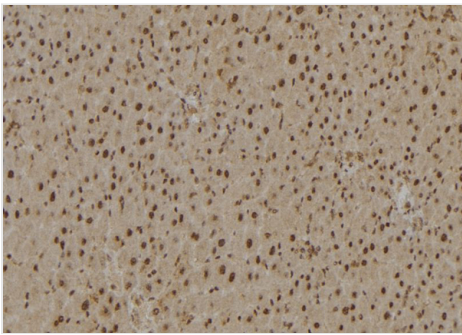
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326524	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

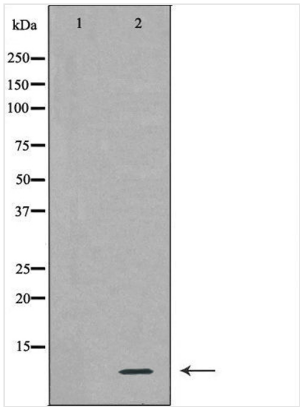
RPS27A; Polyclonal Antibody; RPS27A Antibody; 40S ribosomal protein S27a; CEP 80; CEP80; HUBCEP 80; HUBCEP80; Ribosomal protein S27a; RPS 27A; UBA 80; UBA80; UBCEP 1; UBCEP 80; UBCEP1; UBCEP80; Ubiquitin and ribosomal protein S27a; Ubiquitin carboxyl extension protein 80; Ubiquitin CEP80; anti-RPS27A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RPS27A antibody detects endogenous levels of total RPS27A
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	156
Applicable Applications for anti-RPS27A antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RPS27A
Subcellular Location	Nucleus
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA326524 at 1/100 staining Rat liver 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 antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of HL-60, using RPS27A antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RPS27A antibody

Description: Ubiquitin, a highly conserved protein that has a major role in targeting cellular proteins for degradation by the 26S proteasome, is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin fused to an unrelated protein. This gene encodes a fusion protein consisting of ubiquitin at the N terminus and ribosomal protein S27a at the C terminus. When expressed in yeast, the protein is post-translationally processed, generating free ubiquitin monomer and ribosomal protein S27a. Ribosomal protein S27a is a component of the 40S subunit of the ribosome and belongs to the S27AE family of ribosomal proteins. It contains C4-type zinc finger domains and is located in the cytoplasm. Pseudogenes derived from this gene are present in the genome. As with ribosomal protein S27a, ribosomal protein L40 is also synthesized as a fusion protein with ubiquitin; similarly, ribosomal protein S30 is synthesized as a fusion protein with the ubiquitin-like protein fubi. Multiple alternatively spliced transcript variants that encode the same proteins have been identified.[provided by RefSeq, Sep 2008]

Function: Ubiquitin: 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.

Subunit Structure: Ribosomal protein S27a is part of the 40S ribosomal subunit.

Post-translational Modifications: Ubiquitin: Phosphorylated at Ser-65 by PINK1 during mitophagy. Phosphorylated ubiquitin specifically binds and activates parkin (PRKN), triggering mitophagy (PubMed:24660806, PubMed:24751536, PubMed:24784582, PubMed:25527291). 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 (PubMed:25527291).

Similarity: In the N-terminal section; belongs to the ubiquitin family. In the C-terminal section; belongs to the eukaryotic ribosomal protein eS31 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	208022622
NCBI GeneID	6233
NCBI Accession #	NP_001129064.1
NCBI GenBank Nucleotide #	NM_001135592.2

UniProt Accession #	P62979; P02248; P02249; P02250; P14798; P62988; Q29120; Q6LBL4; Q6LDU5; Q8WYN8; Q91887; Q91888
Molecular Weight	Observed: 9 kDa Predicted: 18 kDa
NCBI Official Full Name	ubiquitin-40S ribosomal protein S27a
NCBI Official Synonym Full Names	ribosomal protein S27a
NCBI Official Symbol	RPS27A
NCBI Official Synonym Symbols	UBC; S27A; CEP80; UBA80; HEL112; UBCEP1; UBCEP80
NCBI Protein Information	ubiquitin-40S ribosomal protein S27a
UniProt Protein Name	Ubiquitin-40S ribosomal protein S27a
UniProt Gene Name	RPS27A
UniProt Synonym Gene Names	UBA80; UBCEP1

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rps27a-antibody-immunohistochemistry-western-blot-elisa/326524>