

RPS27A Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54277

Specification

RPS27A Polyclonal Antibody - Product Information

Application Primary Accession

Reactivity
Host
Clonality
Calculated MW
Physical State
Immunogen

Epitope Specificity

Isotype Purity

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

SUBCELLULAR LOCATION Proclin300 and 50% Glycerol.
Ubiquitin: Cytoplasm. Nucleus.

SIMILARITY

In the N-terminal section; belongs to the ubiquitin family. In the C-terminal section; belongs to the ribosomal protein S27Ae family. Contains 1 ubiquitin-like domain.

SUBUNIT

Ribosomal protein S27a is part of the 40S

ribosomal subunit.

Important Note

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

KLH conjugated synthetic peptide derived

IHC-P, IHC-F, IF, ICC, E

from human RPS27A

P62979

Rabbit

8.8 KDa

Liquid

laG

Rat, Bovine

Polyclonal

31-130/156

Background Descriptions

Ubiquitin, a highly conserved protein that has a major role in targeting cellular proteins for degradation by the 26S proteosome, 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].

RPS27A Polyclonal Antibody - Additional Information

Gene ID 6233



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Other Names

Ubiquitin-40S ribosomal protein S27a, Ubiquitin carboxyl extension protein 80, Ubiquitin, 40S ribosomal protein S27a, Small ribosomal subunit protein eS31, RPS27A, UBA80, UBCEP1

Dilution

IHC-P~~N/A<br \><span class</pre> ="dilution IHC-F">IHC-F~~N/A<br \>IF \sim 1:50 \sim 200
span class ="dilution ICC">ICC \sim N/A
br \>E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

RPS27A Polyclonal Antibody - Protein Information

Name RPS27A (<u>HGNC:10417</u>)

Synonyms UBA80, UBCEP1

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 cellcycle regulation; Lys-29-linked is involved in proteotoxic stress response and cell cycle; 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.

Cellular Location

[Small ribosomal subunit protein eS31]: Cytoplasm. Nucleus, nucleolus

RPS27A Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RPS27A Polyclonal Antibody - Images



