

Rabbit RPS3 Polyclonal Antibody | anti-RPS3 antibody

Anti-RPS3 Antibody, Rabbit Polyclonal

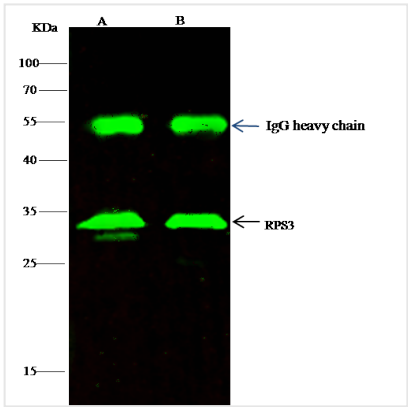
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254539	Rabbit	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)	Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

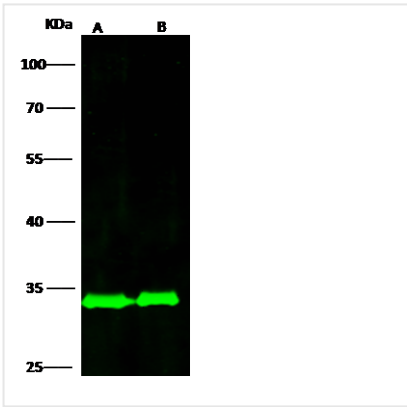
RPS3; Polyclonal Antibody; Anti-RPS3 Antibody; Rabbit Polyclonal; 40S ribosomal protein S3/RPS3 Antibody; Rabbit PAb; Antigen Affinity Purified; ribosomal protein S3; Anti-S3 Antibody; anti-RPS3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human RPS3
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-RPS3 antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Human 40S ribosomal protein S3/RPS3
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Human 40S ribosomal protein S3/RPS3, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



IP (Immunoprecipitation)
RPS3 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate; Lane B: 0.5 mg Jurkat Whole Cell Lysate; 2 uL anti-RPS3 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein G. Primary antibody: Anti-RPS3 rabbit polyclonal antibody, at 1:100 dilution; Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. Developed using the odyssey technique. Performed under reducing conditions. Predicted band size: 33 kDa; Observed band size: 33 kDa.



WB (Western Blot)
Anti-Hexokinase I rabbit polyclonal antibody at 1:500 dilution; Lane A: HepG2 Whole Cell Lysate; Lane B: Jurkat Whole Cell Lysate; Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 27 kDa; Observed band size: 32 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RPS3 antibody	Ribosomal protein S3 (rpS3) is a 243 amino acid component of the 40S ribosomal small subunit. It has multiple roles in translation and extra-ribosomal functions like apoptosis and DNA repair. RpS3 is secreted only in cancer cell lines. Ribosomal protein S3 (RpS3) is a well-known multi-functional protein mainly involved in protein biosynthesis as a member of the small ribosomal subunit. It also plays a role in repairing various DNA damage acting like a repair UV endonuclease. Most of the rpS3 pool is located in the ribosome while the minority exists in free form in the cytoplasm. RPS3 has endonuclease activity for DNA repair. In particular, rpS3 cleaves the phosphodiester bonds of damaged DNA. Penetration of the rpS3 repair domain into cells can cleave UV-induced CPDs and reduce MMP-1 expression induced by UV.
References	Yang HW, et al. (2019) The DNA repair domain of human rps3 protects against photoaging by removing cyclobutane pyrimidine dimers. FEBS Lett 593 (15): 2060-2068. Wu M, et al. (2018) Ssel deubiquitinates rps3 to inhibit its nuclear translocation. Pathogens 7 (4): 86. Kim Y, et al. (2016) Ribosomal protein s3 (rps3) secreted from various cancer cells is n-linked glycosylated. Oncotarget 7 (49): 80350-80362. Kim HD, et al. (2010) Rps3 translation is repressed by interaction with its own mrna. J Cell Biochem 110 (2): 294-303.

NCBI AND UNIPROT INFORMATION

NCBI GI #	15718687
NCBI GeneID	6188
NCBI Accession #	NP_000996.2
NCBI GenBank Nucleotide #	NM_001005.4
UniProt Accession #	P23396; Q498B5; Q8NI95; B2R7N5
Molecular Weight	26,688 Da
NCBI Official Full Name	40S ribosomal protein S3 isoform 1
NCBI Official Synonym Full Names	ribosomal protein S3
NCBI Official Symbol	RPS3
NCBI Official Synonym Symbols	S3
NCBI Protein Information	40S ribosomal protein S3; IMR-90 ribosomal protein S3
UniProt Protein Name	40S ribosomal protein S3

UniProt Gene Name	RPS3
UniProt Entry Name	RS3_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.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/rps3-antibody-immunoprecipitation-western-blot-elisa/254539>