

RPS3 Antibody

Catalog No: #34338



Package Size: #34338-1 50ul #34338-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

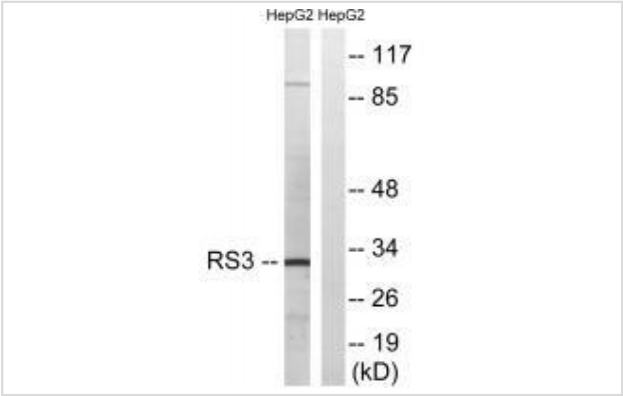
Description

Product Name	RPS3 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of total RPS3 protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from internal of human RPS3.
Target Name	RPS3
Other Names	40S ribosomal protein S3; RS3;
Accession No.	Swiss-Prot: P23396NCBI Gene ID: 6188
Uniprot	P23396
GeneID	6188;
SDS-PAGE MW	30kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

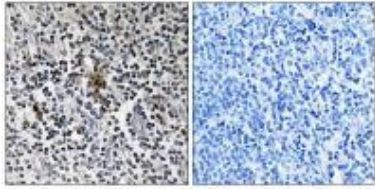
Western blotting: 1:500~1:3000
Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from HepG2 cells, using RPS3 antibody #34338.

Immunohistochemistry analysis of paraffin-embedded human tonsil tissue using RPS3 antibody #34338.



Background

Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40S subunit, where it forms part of the domain where translation is initiated. The protein belongs to the S3P family of ribosomal proteins. Studies of the mouse and rat proteins have demonstrated that the protein has an extraribosomal role as an endonuclease involved in the repair of UV-induced DNA damage. The protein appears to be located in both the cytoplasm and nucleus but not in the nucleolus. Higher levels of expression of this gene in colon adenocarcinomas and adenomatous polyps compared to adjacent normal colonic mucosa have been observed. This gene is co-transcribed with the small nucleolar RNA genes U15A and U15B, which are located in its first and fifth introns, respectively. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Yoshihama M., *Genome Res.* 12:379-390(2002).

Nousiainen M., *Proc. Natl. Acad. Sci. U.S.A.* 103:5391-5396(2006).

Molina H., *Proc. Natl. Acad. Sci. U.S.A.* 104:2199-2204(2007).

Note: This product is for in vitro research use only