ARG56314
anti-RPS10 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes RPS10
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	RPS10
Species	Human
Immunogen	Recombinant protein of Human RPS10
Conjugation	Un-conjugated
Alternate Names	S10; DBA9; 40S ribosomal protein S10

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
IP	1:50 - 1:200
WB	1:500 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Mouse spleen and HT-29

Properties

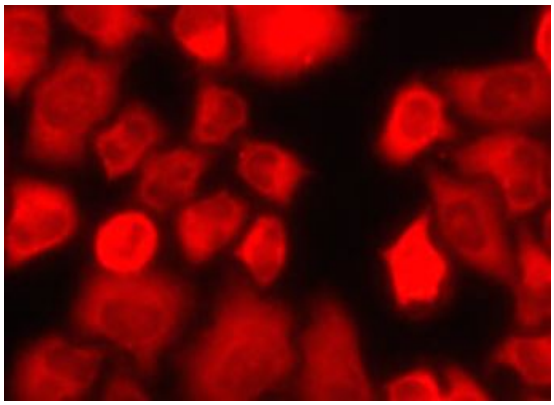
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

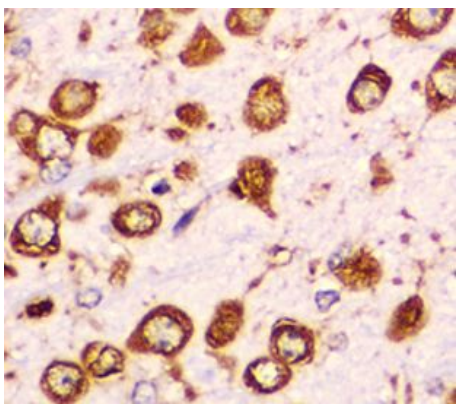
Gene Symbol	RPS10
Gene Full Name	ribosomal protein S10
Background	Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S10E family of ribosomal proteins. It is located in the cytoplasm. Variable expression of this gene in colorectal cancers compared to adjacent normal tissues has been observed, although no correlation between the level of expression and the severity of the disease has been found. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome. Alternate splicing results in multiple transcript variants that encode the same protein. Naturally occurring read-through transcription occurs between this locus and the neighboring locus NUDT3 (nudix (nucleoside diphosphate linked moiety X)-type motif 3).[provided by RefSeq, Feb 2011]
Function	Component of the 40S ribosomal subunit. [UniProt]
Calculated Mw	19 kDa
PTM	Methylated by PRMT5. Methylation is necessary for its interaction with NPS1, its localization in the granular component (GC) region of the nucleolus, for the proper assembly of ribosomes, protein synthesis and optimal cell proliferation. Monoubiquitinated by ZNF598 when a ribosome has stalled during translation of poly(A) sequences, leading to preclude synthesis of a long poly-lysine tail and initiate the ribosome quality control (RQC) pathway to degrade the potentially detrimental aberrant nascent polypeptide (PubMed:28065601, PubMed:28132843).

Images



ARG56314 anti-RPS10 antibody ICC/IF image

Immunofluorescence: MCF7 cells stained with ARG56314 anti-RPS10 antibody.



ARG56314 anti-RPS10 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse brain stained with ARG56314 anti-RPS10 antibody at 1:100 dilution.

ARG56314 anti-RPS10 antibody WB image

Western blot: Mouse spleen and HT-29 cell lysates stained with ARG56314 anti-RPS10 antibody.