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RPS4Y1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12803c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P22090
Other Accession	P49401, P47836, NP_000999.1
Reactivity	Human
Predicted	Chicken, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32129
Antigen Region	76-105

Additional Information

Other Names	40S ribosomal protein S4, Y isoform 1, RPS4Y1, RPS4Y
Target/Specificity	This RPS4Y1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 76-105 amino acids from the Central region of human RPS4Y1.
Dilution	WB~~1:2000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RPS4Y1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Background

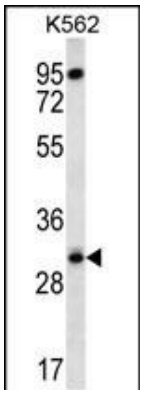
Cytoplasmic ribosomes, organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes ribosomal protein S4, a component of the 40S subunit. Ribosomal protein S4 is the only ribosomal protein known to be encoded by more than one gene, namely this gene and

ribosomal protein S4, X-linked (RPS4X). The 2 isoforms encoded by these genes are not identical, but are functionally equivalent. Ribosomal protein S4 belongs to the S4E family of ribosomal proteins. It has been suggested that haploinsufficiency of the ribosomal protein S4 genes plays a role in Turner syndrome; however, this hypothesis is controversial. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

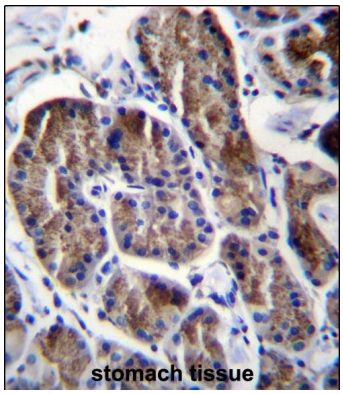
References

Agate, R.J., et al. Mol. Biol. Evol. 21(2):384-396(2004)
Vawter, M.P., et al. Neuropsychopharmacology 29(2):373-384(2004)
Kapp, L.D., et al. Annu. Rev. Biochem. 73, 657-704 (2004) :
Skaletsky, H., et al. Nature 423(6942):825-837(2003)
Sampath, P., et al. Mol. Cell. Biol. 23(5):1509-1519(2003)

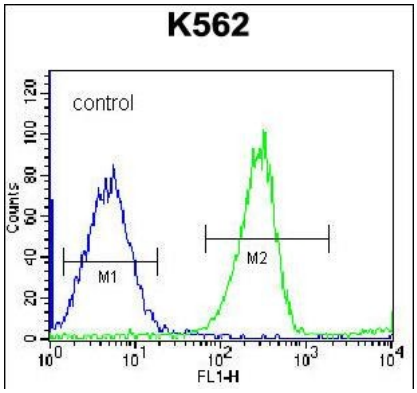
Images



RPS4Y1 Antibody (Center) (Cat. #AP12803c) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the RPS4Y1 antibody detected the RPS4Y1 protein (arrow).



RPS4Y1 Antibody (Center) (Cat. #AP12803c)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of RPS4Y1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



RPS4Y1 Antibody (Center) (Cat. #AP12803c) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.