

Ribosomal Protein L13a Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H Mk	Endogenous	23	Rabbit	#P40429	23521

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Ribosomal Protein L13a Antibody detects endogenous levels of total ribosomal protein L13a.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val185 of human ribosomal protein L13a. Antibodies are purified by peptide affinity chromatography.

Background

Ribosomal protein L13a (RPL13a, 60S ribosomal protein L13a) is a member of the L13 ribosomal protein family and a structural component of the 60S ribosomal subunit (1). RPL13a appears to play an important role in transcript-specific translational silencing. Interferon-γ induces the phosphorylation of RPL13a and triggers the release of this protein from the 60S ribosomal subunit (2). Free RPL13a protein binds to the GAIT (interferon-γ-activated inhibitor of translation) complex at the 3'-UTR of ceruloplasmin (Cp) mRNA to repress Cp expression (2). RPL13a bound to the GAIT complex interacts with eIF4G, which prevents the recruitment of 43S ribosomal subunit and results in transcript-specific translation suppression (3).

Background References

1. Higa, S. et al. (1999) *Gene* 240, 371-7.
2. Mazumder, B. et al. (2003) *Cell* 115, 187-98.
3. Kapasi, P. et al. (2007) *Mol Cell* 25, 113-26.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **Mk:** Monkey

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