

Recombinant human RPS4X, His-tagged

Cat. No. RPS4X-2458H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RPS4X protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	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. RPS4X is 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, Y-linked (RPS4Y). 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. This gene is not subject to X-inactivation. It has been suggested that haploinsufficiency of the ribosomal protein S4 genes plays a role in Turner syndrome; however, this hypothesis is controversial.
Form	Liquid. In 20mM Tris-HCl(pH8.0) containing 40% glycerol, 0.15M NaCl, 1mM DTT
Molecular Mass	32kDa (286aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMARGPKK HLKRVAAPKH WMLDKLTGVF APRPSTGPHK LRECLPLIIF LRNRLKYALT GDEVKKICMQRFKIDGKVR TDITYPAGFM DVISIDKTGE NFRLIYDTKG RFAVHRITPE EAKYKLCKVR

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KIFVGTKGIP HLVTHDARTI RYPDPLIKVN DTIQIDLETG KITDFIKFDT
 GNLCMVTGGA NLGRIGVITN RERHPGSFDV VHVKDANGNS FATRLSNIFV
 IGKGNKPWIS LPRGKGIRLTIAEERDKRLA AKQSSG

Purity >95% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [RPS4X ribosomal protein S4, X-linked \[Homo sapiens \]](#)

Official Symbol RPS4X

Synonyms RPS4X; ribosomal protein S4, X-linked; 40S ribosomal protein S4, X isoform; 40S ribosomal protein S4; X isoform; CCG2; cell cycle gene 2; DXS306; FLJ40595; ribosomal protein S4X isoform; RPS4; S4; SCAR; SCR10; single copy abundant mRNA; single-copy abundant mRNA; single copy abundant mRNA protein;

Gene ID [6191](#)

mRNA Refseq [NM_001007](#)

Protein Refseq [NP_000998](#)

MIM [312760](#)

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UniProt ID	P62701
Chromosome Location	Xq13.1
Pathway	Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Cap-dependent Translation Initiation, organism-specific biosystem; Cytoplasmic Ribosomal Proteins, organism-specific biosystem; Disease, organism-specific biosystem; Eukaryotic Translation Elongation, organism-specific biosystem; Eukaryotic Translation Initiation, organism-specific biosystem; Eukaryotic Translation Termination, organism-specific biosystem;
Function	rRNA binding; structural constituent of ribosome;

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