

Recombinant Human RGN, His-tagged

Cat. No. RGN-30488TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Regucalcin with an N terminal His tag; 319 amino acids with the tag; mwt: 35.4 kDa.
Species	Human
Source	E.coli
ProteinLength	299 amino acids
Description	The protein encoded by this gene is a highly conserved, calcium-binding protein, that is preferentially expressed in the liver and kidney. It may have an important role in calcium homeostasis. Studies in rat indicate that this protein may also play a role in aging, as it shows age-associated down-regulation. This gene is part of a gene cluster on chromosome Xp11.3-Xp11.23. Alternative splicing results in two transcript variants having different 5 UTRs, but encoding the same protein.
Conjugation	HIS
Molecular Weight	35.400kDa inclusive of tags
Form	Liquid
Purity	by SDS-PAGE
Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 20% Glycerol, 1.2% Urea

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Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMSSIKIECVLPENCRCGESPVWEEVSNSLLFVDIPA KKVCRWDSFTKQVQRVTMDAPVSSVALRQSGGYVATIGTKFCALNWKEQSAVVLA TVDNDKKNRFRNDGKVDPAGRYFAGTMAEETAPAVLERHQGALYSLFPDHHVKKY FDQVDISNGLDWSLDHKIFYIDSLSYSVDAFDYDLQTGQISNRRSVYKLEKEEQIPD GMCIDAEGKLWWACYNGGRVIRLDPVTGKRLQTVKLPVDKTTSCCFGGKNYSEMYV TCARDGMDPEGLLRQPEAGG IFKITGLGVKGIAPYSYAG
Sequence Similarities	Belongs to the SMP-30/CGR1 family.
GENE INFORMATION	
Gene Name	RGN regucalcin (senescence marker protein-30) [Homo sapiens]
Official Symbol	RGN
Synonyms	RGN; regucalcin (senescence marker protein-30); regucalcin; RC; senescence marker protein 30; SMP30;
Gene ID	9104
mRNA Refseq	NM_004683
Protein Refseq	NP_004674
MIM	300212
Uniprot ID	Q15493

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Chromosome Location	Xp11.3
Pathway	Ascorbate and aldarate metabolism, organism-specific biosystem; Ascorbate and aldarate metabolism, conserved biosystem; Ascorbate biosynthesis, animals, glucose-1P => ascorbate, organism-specific biosystem; Ascorbate biosynthesis, animals, glucose-1P =>
Function	calcium ion binding; calcium ion binding; enzyme regulator activity; gluconolactonase activity; hydrolase activity;

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