

Recombinant Human Retinol Binding Protein 1, Cellular, His-tagged

Cat. No. RBP1-4746H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RBP1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	RBP1 (Retinol binding protein 1) belongs to the calycin superfamily and fatty-acid binding protein (FABP) family. RBP1 is the carrier protein involved in the transport of retinol (vitamin A alcohol) from the liver storage site to peripheral tissue. RBP1 can also act as a bridging molecule to recruit histone deacetylases (HDACs), proteins that function as potent regulators of gene expression. This protein is detected in nearly all the tissues with higher expression in adult ovary, pancreas, pituitary gland and adrenal gland, and fetal liver.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM NaCl
Molecular Weight	24.7kDa (220aa), confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	0.5mg/ml (determined by Bradford assay)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids

MGSSHHHHHH SSGLVPRGSH MGSMDPPAGF VRAGNPAVAA PQSPLSPEGA
 HFRAAHHPRS TGSRCPGSLQ PSRPLVANWL QSLPEMPVDF TGYWKMLVNE
 NFEEYLRALD VNVALRKIAN LLKPDKEIVQ DGDHMIIRTL STFRNYIMDF
 QVGKEFEEDL TGIDDRKCMT TVSWDGDKLQ CVQKGEKEGR GWTQWIEGDE
 LHLEMRVEGV VCKQVFKKVQ

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

Pathways Retinoic acid receptors-mediated signaling; Vitamin A and carotenoid metabolism

GENE INFORMATION

Gene Name [RBP1 retinol binding protein 1, cellular \[Homo sapiens \]](#)

Official Symbol [RBP1](#)

Synonyms RBP1; CRBP; RBPC; CRBP1; CRBPI; CRABP-I; retinol-binding protein 1; CRBP-I; OTTHUMP00000208586; OTTHUMP00000217139; OTTHUMP00000225120; cellular retinol-binding protein I; retinol-binding protein 1, cellular; retinol-binding protein 1, cellular; Cellular retinol-binding protein I; Cellular retinol-binding protein; C

Gene ID [5947](#)

mRNA Refseq [NM_002899](#)

Protein Refseq [NP_002890](#)

MIM [180260](#)

UniProt ID [P09455](#)

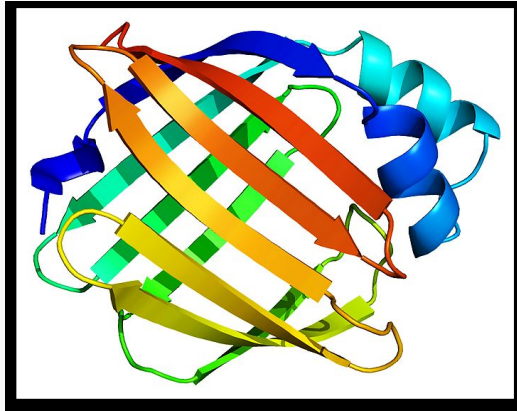
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Chromosome Location	3q23
Function	lipid binding; retinal binding; retinoid binding; retinol binding; transporter activity

PDBrendering based on 1crb.



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