

Recombinant Human RBP1, His-tagged

Cat. No. RBP1-30007TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human RBP1 protein, with an N terminal His tag; 220 amino acids with tag; predicted Mwt: 24.7 kDa inclusive of tag
Species	Human
Source	E.coli
ProteinLength	197 amino acids
Description	This gene encodes the carrier protein involved in the transport of retinol (vitamin A alcohol) from the liver storage site to peripheral tissue. Vitamin A is a fat-soluble vitamin necessary for growth, reproduction, differentiation of epithelial tissues, and vision. Multiple transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Molecular Weight	24.700kDa inclusive of tags
Tissue specificity	Detected in nearly all the tissues with higher expression in adult ovary, pancreas, pituitary gland and adrenal gland, and fetal liver.
Form	Liquid
Purity	>90% by SDS-PAGE

 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

Storage buffer	pH: 8.00 Constituents: 20% Glycerol, 0.32% Tris HCl, 0.03% DTT, 1.17% Sodium chloride
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	MGSSHHHHHSSGLVPRGSHMGSM DPPAGFVRAGNPAVAA PQSPLSPEGAHFR AAHHRSTGSRCPGSLQPSRPLVANWL QSLPEMPVDFTGYWKMLVNENFEEYLR ALDVNVALRKIAN LLKPDKEIVQDGDHMIIRTLSTFRNYIMDFQVGKEFEEDL TGIDD RKCMTTVSWDGDQLQCVQKGEKEGRGWTQWIEGDE LHLEMRVEGVVCKQVFKK VQ
Sequence Similarities	Belongs to the calycin superfamily. Fatty-acid binding protein (FABP) family.

GENE INFORMATION

Gene Name	RBP1 retinol binding protein 1, cellular [Homo sapiens]
Official Symbol	RBP1
Synonyms	RBP1; retinol binding protein 1, cellular; retinol-binding protein 1; CRABP I; CRBP; CRBP1; CRBPI; RBPC;
Gene ID	5947
mRNA Refseq	NM_001130992
Protein Refseq	NP_001124464
MIM	180260

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Uniprot ID	P09455
Chromosome Location	3q21-q23
Pathway	Retinoic acid receptors-mediated signaling, organism-specific biosystem; Vitamin A and carotenoid metabolism, organism-specific biosystem;
Function	lipid binding; retinal binding; retinoid binding; retinol binding; transporter activity;

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