

Recombinant Human retinol binding protein 2, cellular, His-tagged

Cat. No. RBP2-533H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RBP2, 1-134aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-134 a.a.
Description	RBP2 is an abundant protein present in the small intestinal epithelium. It is thought to participate in the uptake and/or intracellular metabolism of vitamin A. Vitamin A is a fat-soluble vitamin necessary for growth, reproduction, differentiation of epithelial tissues, and vision. RBP2 may also modulate the supply of retinoic acid to the nuclei of endometrial cells during the menstrual cycle. Recombinant human RBP2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol.
Molecular Mass	18 kDa (158aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMTRDQN GTWEMESNEN FEGYMKALDI DFATRKIAVR LTQTKVIDQD GDNFKTKTTS TFRNYDVDFV VGVEFDEYTK SLDNRHVKAL VTWEGDVLVC VQKGEEKENRG WKQWIEGDKL YLELTCDQV CRQVFKKK

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Purity	>95% by 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	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	RBP2 retinol binding protein 2, cellular [Homo sapiens]
Official Symbol	RBP2
Synonyms	RBP2; retinol binding protein 2, cellular; retinol-binding protein 2; CRABP II; CRBP2; CRBP2; RBPC2; CRBP-II; cellular retinol-binding protein II; retinol-binding protein 2, cellular; CRABP-II;
Gene ID	5948
mRNA Refseq	NM_004164
Protein Refseq	NP_004155
MIM	180280
UniProt ID	P50120
Chromosome Location	3q23
Pathway	Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Metabolism of steroid hormones and vitamins A and D,

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organism-specific biosystem; Regulation of retinoblastoma protein, organism-specific biosystem; Vitamin A and carotenoid metabolism, organism-specific biosystem; Vitamin A uptake in enterocytes, organism-specific biosystem; Vitamin digestion and absorption, organism-specific biosystem;

Function

lipid binding; retinal binding; retinoid binding; retinol binding; transporter activity;

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