Recombinant Human RBP4

Cat. No. RBP4-31234TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RBP4 was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	19-201aa
Description	This protein belongs to the lipocalin family and is the specific carrier for retinol (vitamin A alcohol) in the blood. It delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin which prevents its loss by filtration through the kidney glomeruli. A deficiency of vitamin A blocks secretion of the binding protein posttranslationally and results in defective delivery and supply to the epidermal cells.
Form	In Phosphate-Buffered Saline (pH 7.4)
Molecular Mass	21 kDa (184 aa), confirmed by MALDI-TOF.
AA Sequence	MERDCRVSSF RVKENFDKAR FSGTWYAMAK KDPEGLFLQD NIVAEFSVDE TGQMSATAKG RVRLLNNWDV CADMVGTFTD TEDPAKFKMKYWGVASFLQK GNDDHWIVDT DYDTYAVQYS CRLLNLDGTC ADSYSFVFSR DPNGLPPEAQ KIVRQRQEEL CLARQYRLIV HNGYCDGRSERNLL

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Endotoxin	< 1.0 Eu per 1 microgram of protein (determined by LAL method)
Purity	> 95% by SDS - PAGE
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.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	RBP4 retinol binding protein 4, plasma [Homo sapiens]
Official Symbol	RBP4
Synonyms	RBP4; retinol binding protein 4, plasma; OTTHUMP00000020116; retinol-binding protein 4, interstitial; RBP; Plasma retinol-binding protein(1-182); Plasma retinol-binding protein(1-181); Plasma retinol-binding protein(1-179); OTTHUMP00000020114
Gene ID	5950
mRNA Refseq	NM_006744
Protein Refseq	NP_006735
MIM	180250
UniProt ID	P02753
Chromosome Location	10q23.33

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Pathway	Diseases associated with visual transduction; Retinoid metabolism and transport; The canonical retinoid cycle in rods (twilight vision)
Function	protein binding; protein heterodimerization activity; retinal binding

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