

Recombinant Human RBP3

Cat. No. RBP3-30611TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human RBP3 with an N-terminal proprietary tag; Predicted MW 36.41 kDa
Species	Human
Source	Wheat Germ
ProteinLength	98 amino acids
Description	Interphotoreceptor retinol-binding protein is a large glycoprotein known to bind retinoids and found primarily in the interphotoreceptor matrix of the retina between the retinal pigment epithelium and the photoreceptor cells. It is thought to transport retinoids between the retinal pigment epithelium and the photoreceptors, a critical role in the visual process. The human IRBP gene is approximately 9.5 kbp in length and consists of four exons separated by three introns. The introns are 1.6-1.9 kbp long. The gene is transcribed by photoreceptor and retinoblastoma cells into an approximately 4.3-kilobase mRNA that is translated and processed into a glycosylated protein of 135,000 Da. The amino acid sequence of human IRBP can be divided into four contiguous homology domains with 33-38% identity, suggesting a series of gene duplication events. In the gene, the boundaries of these domains are not defined by exon-intron junctions, as might have been expected. The first three homology domains and part of the fourth are all encoded by the first large exon, which is 3,180 base pairs long. The remainder of the fourth domain is encoded in the last three exons, which are 191, 143, and approximately 740 base pairs long,

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respectively.

Molecular Weight	36.410kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	GTAEETYIMKRLGRALVIGEVTSGGCQPPQTYHVDDTNLYLTIPTARSVGASDGSS WEGVGVTPHVVVPAEEALARAKEMLQHNQLRVKRSPGLQDH
Sequence Similarities	Belongs to the peptidase S41A family.

GENE INFORMATION

Gene Name	RBP3 retinol binding protein 3, interstitial [Homo sapiens]
Official Symbol	RBP3
Synonyms	RBP3; retinol binding protein 3, interstitial; retinol-binding protein 3; D10S64; D10S65; D10S66;
Gene ID	5949
mRNA Refseq	NM_002900

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Protein Refseq	NP_002891
MIM	180290
Uniprot ID	P10745
Chromosome Location	10q11.2
Function	retinal binding; retinoid binding; serine-type peptidase activity;

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