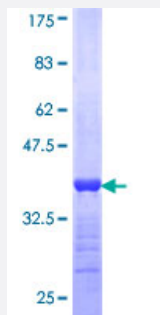


RBP3 (Human) Recombinant Protein (Q01)

Catalog # H00005949-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human RBP3 partial ORF (NP_002891 , 1149 a.a. - 1246 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GTAEETYIMKRLGRALVIGEVTSGGCQPPQTYHVDDTNLYLTIPTARSVGASDGSSWEGVGVT PHVVVPAEEALARAKEMLQHNQLRVKRSPGLQDH
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.52
Interspecies Antigen Sequence	Mouse (87); Rat (87)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — RBP3

Entrez GeneID [5949](#)

GeneBank Accession# [NM_002900](#)

Protein Accession# [NP_002891](#)

Gene Name RBP3

Gene Alias D10S64, D10S65, D10S66, IRBP, RBPI

Gene Description retinol binding protein 3, interstitial

Omim ID [180290](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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, respectively. [provided by RefSeq]

Other Designations OTTHUMP00000019536|interphotoreceptor retinoid-binding protein|retinol-binding protein 3|retinol-binding protein 3, interstitial

Disease

- [Retinal Dystrophies](#)
- [Retinitis Pigmentosa](#)