

Recombinant Human RBP3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RBP3-6254H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

RBP3 MS Standard C13 and N15-labeled recombinant protein (NP_002891) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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, respectively.

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Molecular Mass	135.36 kDa
AA Sequence	MMREWVLLMSVLLCGLAGPThLFQPSLVLDMAKVLLDNYCFPENLLGMQEAIQQA KSHEILSISDPQTLASVLTAGVQSSLNDRPRLVISYEPSTPEPPPPQVPALTSLSSEEELLA WLQRGLRHEVLEGNVGYLRVDSVPGQEVLSMMGEFLVAHVWGNLMGTSALVLDL RHCTGGQVSGIPYIISYLHPGNTILHVDTIYNRPSNTTTEIWTLPQVLGERYGADKDV VVLTSSTQTRGVAEDIAHILKQMRRAIVVGERTGGGALDLRKLIGESDFFFTVPVSRS LGPLGGGSQTWEGSGVLPCVGTAEQALEKALAILTLRSALPGVVHCLQEVLKDY TLVDRVPTLLQHLASMDFSTVVSEEDLVTKLNAGLQAASEDPRLLVRAIGPTETPSW PAPDAAAEDSPGVAPELPEDEAIRQALVDSVFQVSVLPGNVGYLRFDSFADASVLG VLAPYVLRQVWEPLQDTEHLIMDLRHNPGGPSSAVPLLLSYFQGPEAGPVHLFTTY DRRTNITQEHFHSHMELPGPRYSTQRGVYLLTSHRTATAAEFAFLMQSLGWATLVG EITAGNLLHTRTVPLLDTPEGSLALTVPVLTFDNHGEAWLGGGVVPAIVLAEALD KAQEVLEFHQSLGALVEGTGHLLEAHYARPEVVGQTSALLRAKLAQGAYRTAVDLE SLASQLTADLQEVSGDHRLLVFHSPGELVVEEAPPPPAVPSPEELTYLIEALFKTEV LPGQLGYLRFDAMAELETVKAVGPQLVRLVWQQQLVDTAALVIDLRYNPGSYSTAIP LCSYFFEAEPQRHLYSVFDRATSKVTEVWTLQVAGQRYGSHKDLYILMSHTSGSA AEFAHTMQDLQRATVIGEPTAGGALSVGIYQVGSSPLYASMPTQMAMSATTGKA WDLAGVEPDITVPMSEALSIAQDIVALRAKVPTVLQTAGKLVADNYASAELGAKMAT KLSGLQSRYSRVTSEVALAEILGADLQMLSGDPLKAAHIPENAKDRIPGIVPMQIPS PEVFEELIKFSFHTNVLEDNIGYLRFD MF DGELLTQVSRLLVEHIWKKIMHTDAMIID MRFNIGGPTSSIPILCSYFFDEGPPVLLDKIYSRPDDSVSELWTHAQVVGERYGSKK SMVILTSSVTAGTAEFTYIMKRLGRALVIGEVTSGGCQPPQTYHVDDTNLYLTIPTA RSVGASDGSSWEGVGVTPHVVPAEEALARAKEMLQHNQLRVKRSPGLQDHLTRT RPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.

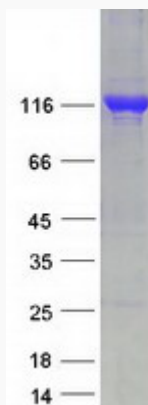
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	RBP3 retinol binding protein 3 [Homo sapiens (human)]
Official Symbol	RBP3
Synonyms	RBP3; retinol binding protein 3, interstitial; retinol-binding protein 3; D10S64; D10S65; D10S66; interphotoreceptor retinoid-binding protein; IRBP; RBPI;
Gene ID	5949
mRNA Refseq	NM_002900
Protein Refseq	NP_002891
MIM	180290
UniProt ID	P10745

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SDS-PAGE



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