

Product datasheet for TP308063M

RBP3 (NM_002900) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens retinol binding protein 3, interstitial (RBP3), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208063 representing NM_002900 Red=Cloning site Green=Tags(s)

MMREWLLMSVLLCGLAGPHTLFPQSLVLDMAKVLLDNYCFPENLLGMQEAIQQAISHEILSISDPQTL
ASVLTAGVQSSLNDPRLVISYEPSTPEPPPQVPALTSLEEELLAWLQRGLRHEVLEGNVGYLRVDSVPG
QEVLSMMGEFLVAHVWGNLMGTSALVLDLRHCTGGQVSGIPYIISYLHPGNTILHVDTIYNRPSNTTTEI
WTLPQVLGERYGADKDVVLTSSQTRGVAEDIAHILKQMRRAIVGERTGGGALDLRKLKRGESDFFFTV
PVSRLGPLGGGSQTWEGSGVLPCVGTAEQALEKALAILTRLSALPGVHCLQEVLDKDYTLVDRVPTL
LQHLASMDVFSTVSEEDLVTKLNAGLQAASEDPRLLVRAIGPTETPSWPAPDAAAEDSPGVAPELPEDEA
IRQALVDSVVFQVSVLPGNVGYLRFDSFADASVLGVLAPYVLRQVWEPLQDTEHLIMDLRHNPGGPSSAVP
LLLSYFQGPEAGPVHLFTTYDRRTNITQEHFHSMELPGPRYSTQRGVYLLTSHRTATAAEFAFLMQSLG
WATLVGEITAGNLLHTRTVPLDTPESGLALVPLTFIDNHGEAWLGGGVDPDAIVLAAEALDKAQEVL
EFHQSLGALVEGTGHLLLEAHYARPEVVGQTSALLRAKLAQGAYRTAVDLESASQLTADLQEVSGDHRLL
VFHSPGELWEEAPPPPAVPSPEELTYLIEALFKTEVLPQGLGYLRFDAMAELETVKAVGPQLVRLVWQ
QLVDTAALVIDLRYNPGSYSTAIPLLCSYFFEAEPQHLYSVFDRATSKVTEVWTLVQVAGQRYGSHKDL
YILMSHTSGSAAEFAHTMQDLQRATVIGEPTAGGALSVGIYQVGSPLYASMPTQMAMSATTGKAWDLA
GVEPDITVPMSEALSIAQDIVALRAKVPTVLTAGKLVADNYASAELGAKMATKLSGLQSRYSRVTSEVA
LAEILGADLQMLSGDPHLKAHIPENAKDRIPGIVPMQIPSEVFEELIKFSFHTNVLEDNIGYLRDFMF
GDGELLTQVSRLLEHIVKIMHTDAMIIDMRFNIGGPTSSIPILCSYFFDEGPPVLLDKIYRPDDSVS
ELWTHAQVVGERYGSKKSMVILTSSVTAGTAEFTYIMKRLGRALVIGEVTSGGCQPPQTYHVDNLYL
TIPTARSVGASDGSSWEGVGVTPHVVVPAEEALARAKEMLQHNQLRVKRSPGLQDHL

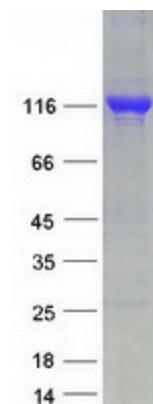
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	133.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method



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Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002891
Locus ID:	5949
UniProt ID:	P10745
RefSeq Size:	4289
Cytogenetics:	10q11.22
RefSeq ORF:	3741
Synonyms:	D10S64; D10S65; D10S66; IRBP; RBPI; RP66
Summary:	<p>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, Jul 2008]</p>
Protein Families:	Secreted Protein

Product images:

Coomassie blue staining of purified RBP3 protein (Cat# [TP308063]). The protein was produced from HEK293T cells transfected with RBP3 cDNA clone (Cat# [RC208063]) using MegaTran 2.0 (Cat# [TT210002]).