

Recombinant Human RBP3 Protein, His-tagged

Cat. No. RBP3-35H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RBP3 Protein (Gly18-Leu1247) is produced by Human Cells expression system. This protein is fused with a 6His tag at the C-terminus.
Species	Human
Source	Human Cells
ProteinLength	Gly18-Leu1247
Description	Retinol-binding proteins (RBP) are a family of proteins with diverse functions. They are carrier proteins that bind retinol. Retinol and retinoic acid play crucial roles in the modulation of gene expression and overall development of an embryo. However, deficit or excess of either one of these substances can cause early embryo mortality or developmental malformations. Regulation of transport and metabolism of retinol necessary for a successful pregnancy is accomplished via RBP. Retinol binding proteins have been identified within the uterus, embryo, and extraembryonic tissue of the bovine, ovine, and porcine, clearly indicating that RBP plays a role in proper retinol exposure to the embryo and successful transport at the maternal-fetal interface.
Form	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
AA Sequence	GPTHLFQPSLVLDMAKVLLDNYCFPENLLGMQEAIQQAISHEILSISDPQTLASVLTA GVQSSLNDPRLVISYEPSTPEPPPQVPALTSLEEELLAWLQRGLRHEVLEGNVG YLRVDSVPGQEVLMMGEFLVAHVWGNLMGTSALVLDLRHCTGGQVSGIPYIISYLH

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PGNTILHVDTIYNRPSNTTTEIWT LPQVLGERYGADKDVVLTSSQTRGVAEDIAHIL
 KQMRRAIVVGERTGGGALDLRKLKRGESDFF FTVPVSRSLGPLGGGSQTWEGSGV
 LPCVGTAEQALEKALAILTLRSALPGVVHCLQEVLKDYYT LVDRVPTLLQHLASMD
 FSTVVSEEDLVTKLNAGLQAASEDPRLLVRAIGPTETPSWPAPDAAAED SPGVAPE
 LPEDEAIRQALVDSVFQVSVLPGNVGYLRFDSFADASVLGVLAPYVLRQVWEPLQD
 TE HLIMDLRHNPGGPSSAVPLLLSYFQGPEAGPVHLFTTYDRRTNITQEHFSHMELP
 GPRYSTQRGV YLLTSHRTATAAEFAFLMQSLGWATLVGEITAGNLLHTRTVPLLD
 PEGSLALTVPVLTIDNH GEAWLGGGVVPDAIVLAEALDKAQEVLEFHQSLGALVE
 GTGHLLEAHYARPEVVGQTSALLRAK LAQGAYRTAVDLESASQLTADLQEVSGDH
 RLLVFHSPGELVVEEAPPPPAVPSPEELTYLIEA LFKTEVLPQGQLGYLRFDAMAE
 ETGKAVGPQLVRLVWQQLVDTAALVIDLRYNPGSYSTAIPLLC SYFFEAEPHQHLYS
 VFDRATSKVTEVWTLQVAGQRYGSHKDLIYMSHTSGSAAEFAHTMQDL QRAT
 VIGEPTAGGALSVGIYQVGSSPLYASMPTQMAMSATTGKAUWLAGVEPDITVPMSE
 ALSIA QDIVALRAKVPTVLQTAGKLVDADNYASAELGAKMATKLSGLQSRYSRVTSEV
 ALAEILGADLQML SGDPHLKAAHIPENAKDRIPGIVPMQIPSPVEFEELIKFSFHTNVL
 EDNIGYLRFDMMFGDGELLT QVSRLLEHIVKIMHTDAMIIDMRFNIGGPTSSIPILCS
 YFFDEGPPVLLDKIYSRPDDSVSEL WTHAQVVGERYGSKKSMVILTSSVTAGTAAE
 FTYIMKRLGRALVIGEVTSGGCQPPQTYHVDDTN LYLTIPARSVGASDGSSWEGV
 GVTPHVVVPAEEALARAKEMLQHNQLRVKRSPGLQDHLHHHHH H

Endotoxin < 0.1 ng/g (1 IEU/g) as determined by LAL test.

Purity > 95% as determined by reducing SDS-PAGE.

Storage Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks.
 Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days.
 Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.

Reconstitution Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

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It is not recommended to reconstitute to a concentration less than 100 µg/ml.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Shipping The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name RBP3 retinol binding protein 3, interstitial [Homo sapiens]

Official Symbol RBP3

Synonyms RBP3; D10S64; D10S65; D10S66; IRBP; RBPI;

Gene ID 5949

mRNA Refseq NM_002900

Protein Refseq NP_002891

MIM 180290

UniProt ID P10745

SDS-PAGE

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