

## Recombinant Human RBP3 Protein, His-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | Human Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | Gly18-Leu1247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>AA Sequence</b>      | GPTHLFQPSLVLDMAKVLLDNYCFPENLLGMQEAIQQAISHEILSISDPQTLASVLTA<br>GVQSSLNDPRLVISYEPSTPEPPPQVPALTSLEEELLAWLQRGLRHEVLEGNVG<br>YLRVDSVPGQEVLMMGEFLVAHVWGNLMGTSALVLDLRHCTGGQVSGIPYIISYLH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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PGNTILHVDTIYNRPSNTTTEIWT LPQVLGERYGADKDVVLTSSQTRGVAEDIAHIL  
 KQMRRAIVVGERTGGGALDLRKLKRGESDFF FTVPVSRSLGPLGGGSQTWEGSGV  
 LPCVGTAEQALEKALAILTLRSALPGVVHCLQEVLKDYYT LVDRVPTLLQHLASMD  
 FSTVVSEEDLVTKLNAGLQAASEDPRLLVRAIGPTETPSWPAPDAAAED SPGVAPE  
 LPEDEAIRQALVDSVFQVSVLPGNVGYLRFDSFADASVLGVLAPYVLRQVWEPLQD  
 TE HLIMDLRHNPGGPSSAVPLLLSYFQGPEAGPVHLFTTYDRRTNITQEHFSHMELP  
 GPRYSTQRGV YLLTSHRTATAAEEFAFLMQSLGWATLVGEITAGNLLHTRTVPLLD  
 PEGSLALTVPVLTIDNH GEAWLGGGVVPDAIVLAAEEALDKAQEVLEFHQSLGALVE  
 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 ddH<sub>2</sub>O.  
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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