

## RBP4 Protein, Rat (HEK293, His)

Cat. No.:	HY-P74598
Synonyms:	Plasma retinol-binding protein; PRBP; RBP
Species:	Rat
Source:	HEK293
Accession:	P04916 (E19-L201)
Gene ID:	25703
Molecular Weight:	Approximately 24 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           ERDCRVSSFR    VKENFDKARF    SGLWYAIACK    DPEGLFLQDN            IIAEFSVDEK    GHMSATAKGR    VRLLSNWEVC    ADMVGTFTDT            EDPAKFKMKY    WGVASFQGRG    NDDHWIIDTD    YDTFALQYSC            RLQNL DGTCA    DSYSFVFSRD    PNGLTPETRR    LVRQRQEELC            LERQYRWIEH    NGYCQSRPSR    NSL         </p>
<b>Biological Activity</b>	Measured by its ability to bind all-trans retinoic acid. The binding of retinoic acid results in the quenching of Trp fluorescence in RBP4. The 50% binding concentration (BC <sub>50</sub> ) is 0.293 μM, as measured under the described conditions.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	RBP4 Protein is a retinol-binding protein involved in the transportation of retinol in the blood plasma. It plays a crucial role in delivering retinol from liver stores to peripheral tissues. RBP4 binds to all-trans retinol and transfers it to STRA6, which facilitates the transport of retinol across the cell membrane. RBP4 also interacts with TTR, preventing its filtration through the kidney glomeruli. Additionally, it interacts with STRA6, further contributing to its function in retinol transport.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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