

## RBP4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74599
Synonyms:	Plasma retinol-binding protein; PRBP; RBP
Species:	Mouse
Source:	HEK293
Accession:	Q00724 (E19-L201)
Gene ID:	19662
Molecular Weight:	Approximately 22.8 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> ERDCRVSSFR   VKENFDKARF   SGLWYAI AKK   DPEGLFLQDN IIAEFSVDEK   GHMSATAKGR   VRLLSNWEVC   ADMVGTFTDT EDPAKF KMKY   WGVASF LQRG   NDDHWI IDTD   YDTFALQYSC RLQNL DGTCA   DSYSFVFSRD   PNGLSPE TRR   LVRQRQEELC LERQYRWIEH   NGYCQSRPSR   NSL           </pre>
<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 0.436 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. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
<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.
<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 crucial retinol-binding protein responsible for transporting retinol in the blood plasma. It plays a vital role in delivering retinol from the liver stores to the peripheral tissues. RBP4 binds to all-trans retinol and transfers it to STRA6, which facilitates the efficient transport of retinol across the cell membrane. Additionally, RBP4 interacts with TTR, preventing its loss through filtration in the kidney glomeruli. Moreover, RBP4 also interacts with STRA6, further contributing
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to its role 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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