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# RBP4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20177A

## Product Information

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|---|---|
| **Application** | WB, E |
| **Primary Accession** | P02753 |
| **Other Accession** | P04916, P27485, Q00724, NP_006735.2 |
| **Reactivity** | Mouse |
| **Predicted** | Pig, Rat, Bovine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB41668 |
| **Calculated MW** | 23010 |
| **Antigen Region** | 11-40 |

## Additional Information

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| **Gene ID** | 5950 |
| **Other Names** | Retinol-binding protein 4, Plasma retinol-binding protein, PRBP, RBP, Plasma retinol-binding protein(1-182), Plasma retinol-binding protein(1-181), Plasma retinol-binding protein(1-179), Plasma retinol-binding protein(1-176), RBP4 |
| **Target/Specificity** | This RBP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 11-40 amino acids from the N-terminal region of human RBP4. |
| **Dilution** | WB~~1:1000 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | RBP4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | RBP4 |
| **Function** | Retinol-binding protein that mediates retinol transport in blood plasma |

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| | (PubMed:5541771). Delivers retinol from the liver stores to the peripheral tissues (Probable). Transfers the bound all-trans retinol to STRA6, that then facilitates retinol transport across the cell membrane (PubMed:22665496). |
| **Cellular Location** | Secreted |
| **Tissue Location** | Detected in blood plasma and in urine (at protein level). |

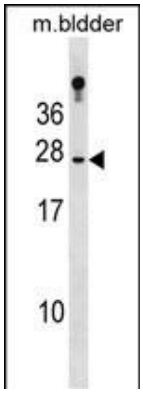
## Background

This protein belongs to the lipocalin family and is the specific carrier for retinol (vitamin A alcohol) in the blood. It delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin which prevents its loss by filtration through the kidney glomeruli. A deficiency of vitamin A blocks secretion of the binding protein posttranslationally and results in defective delivery and supply to the epidermal cells.

## References


Wang, S.N., et al. J. Formos. Med. Assoc. 109(6):422-429(2010)
Liu, X.H., et al. Zhonghua Yi Xue Za Zhi 90(18):1251-1254(2010)
Ku, Y.H., et al. J. Int. Med. Res. 38(3):782-791(2010)
Giacomozzi, C., et al. J. Endocrinol. Invest. 33(4):218-221(2010)
Nair, A.K., et al. PLoS ONE 5 (7), E11444 (2010) :


## Images




RBP4 Antibody (N-term) (Cat. #AP20177a) western blot analysis in mouse bladder tissue lysates (35ug/lane).This demonstrates the RBP4 antibody detected the RBP4 protein (arrow).

## Citations

- O-GlcNAcylation disrupts STRA6-retinol signals in kidneys of diabetes.


Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.