

# Anti-RBP4 Picoband Antibody

Catalog # ABO12917

## Product Information

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|--------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P, E                                                                                             |
| <b>Primary Accession</b> | <a href="#">Rbp4: Q00724</a>                                                                             |
| <b>Host</b>              | Rabbit                                                                                                   |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                        |
| <b>Clonality</b>         | Polyclonal                                                                                               |
| <b>Format</b>            | Lyophilized                                                                                              |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for RBP4 detection. Tested with WB, IHC-P, ELISA(Cap) in Human;Mouse;Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                     |

## Additional Information

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| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml<br><br>Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml<br><br>ELISA(Cap), 0.1-0.5 µg/ml                                                   |
| <b>Subcellular Localization</b> | Secreted                                                                                                                                                                           |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                                                         |
| <b>Immunogen</b>                | E. coli-derived mouse RBP4 recombinant protein (Position: E19-L201).                                                                                                               |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                       |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins.                                                                                                                                           |
| <b>Storage</b>                  | At -20° C for one year. After reconstitution, at 4° C for one month. It can also be aliquotted and stored frozen at -20° C for a longer time. Avoid repeated freezing and thawing. |

## Protein Information

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### Background

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RBP4 is also known as RDCCAS. 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.

## Images

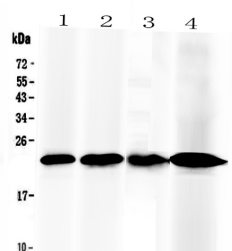


Figure 1. Western blot analysis of RBP4 using anti-RBP4 antibody (ABO12917). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse liver tissue lysates, Lane 2: rat liver tissue lysates, Lane 3: human placenta tissue lysates, Lane 4: human HepG2 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RBP4 antigen affinity purified polyclonal antibody (Catalog # ABO12917) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for RBP4 at approximately 23KD. The expected band size for RBP4 is at 23KD.

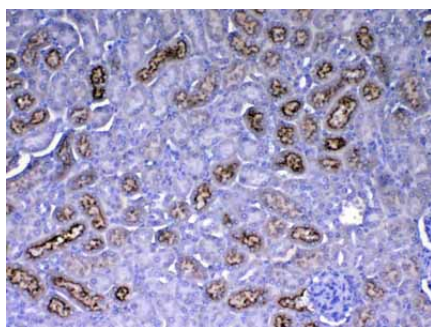


Figure 2. IHC analysis of RBP4 using anti-RBP4 antibody (ABO12917).RBP4 was detected in paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-RBP4 Antibody (ABO12917) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

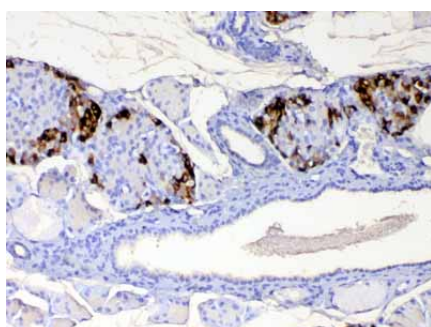
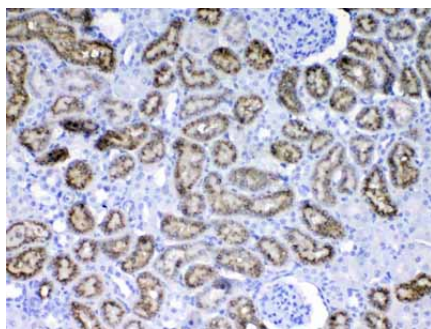


Figure 3. IHC analysis of RBP4 using anti-RBP4 antibody (ABO12917).RBP4 was detected in paraffin-embedded section of mouse pancreas tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-RBP4 Antibody (ABO12917) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

Figure 4. IHC analysis of RBP4 using anti-RBP4 antibody (ABO12917).RBP4 was detected in paraffin-embedded section of rat kidney tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was



then incubated with 1ug/ml rabbit anti-RBP4 Antibody (ABO12917) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

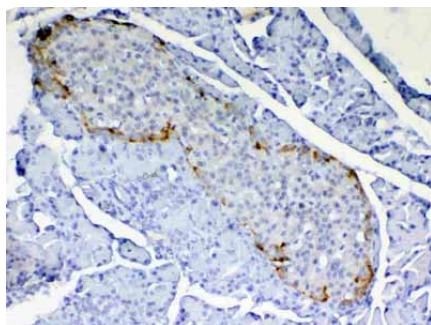


Figure 5. IHC analysis of RBP4 using anti-RBP4 antibody (ABO12917).RBP4 was detected in paraffin-embedded section of rat pancreas tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-RBP4 Antibody (ABO12917) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

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