

## Mouse anti-Human RBP4 Monoclonal Antibody | anti-RBP4 antibody

Anti-RBP4 Antibody (FITC), Mouse Monoclonal

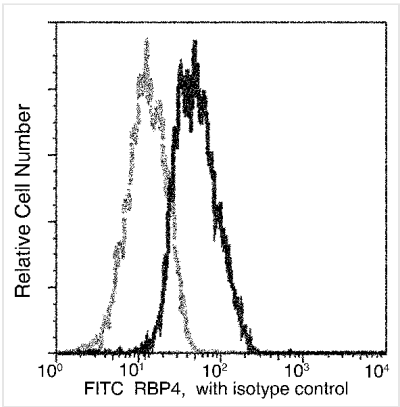
|                               |                      |                            |                                                         |
|-------------------------------|----------------------|----------------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA254864</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
|-------------------------------|----------------------|----------------------------|---------------------------------------------------------|

### PRODUCT SYNONYMS

RBP4; Monoclonal Antibody; Anti-RBP4 Antibody (FITC); Mouse Monoclonal; RBP4 Antibody (FITC); Mouse MAb; retinol binding protein 4; plasma; Anti-RDCCAS Antibody; anti-RBP4 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                     |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                               |
| Reactivity                                     | Human                                                                                                                                                                                                                                                                               |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                          |
| Isotype                                        | Mouse IgG1                                                                                                                                                                                                                                                                          |
| Clone Number                                   | 15                                                                                                                                                                                                                                                                                  |
| Specificity                                    | Human RBP4                                                                                                                                                                                                                                                                          |
| Form/Format                                    | Liquid; Aqueous solution containing 0.5% BSA and 0.1% sodium azide                                                                                                                                                                                                                  |
| Concentration                                  | 10ul/Test, 0.1mg/ml (varies by lot)                                                                                                                                                                                                                                                 |
| Applicable Applications for anti-RBP4 antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                           |
| Immunogen                                      | Recombinant Human RBP4 protein                                                                                                                                                                                                                                                      |
| Reagents                                       | FITC-conjugated Mouse monoclonal antibody.                                                                                                                                                                                                                                          |
| Preparation                                    | This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human RBP4 (rh RBP4) and conjugated with FITC under optimum conditions, the unreacted FITC was removed.            |
| Preparation and Storage                        | This antibody can be stored at 2-8 degree C for twelve months without detectable loss of activity. Protected from prolonged exposure to light. Do not freeze! Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal. |



**Application Data**  
Profile of anti-RBP4 reactivity on HepG2 cells analyzed by flow cytometry. The cells were treated according to manufacturer's manual (BD Pharmingen<sup>®</sup>), and stained with FITC conjugated Mouse anti-RBP4. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-RBP4 antibody | Retinol-binding protein 4 (RBP4) is the specific carrier for retinol (also known as vitamin A), and is responsible for the conversion of unstable and insoluble retinol in aqueous solution into stable and soluble complex in plasma through their tight interaction. As a member of the lipocalin superfamily, RBP4 containing a beta-barrel structure with a well-defined cavity is secreted from the liver, and in turn delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP4-retinol complex interacts with transthyretin (TTR), and this binding is crucial for preventing RBP4 excretion through the kidney glomeruli. RBP4 expressed from an ectopic source efficiently delivers retinol to the eyes, and its deficiency affects night vision largely. Recently, RBP4 as an adipokine, is found to be expressed in adipose tissue and correlated with obesity, insulin resistance (IR) and type 2 diabetes (T2DM). |
| References                                         | Yang Q, et al. (2005) Serum retinol binding protein 4 contributes to insulin resistance in obesity and type 2 diabetes. Nature. 436(7049): 356-62. Choi SH, et al. (2008) High plasma retinol binding protein-4 and low plasma adiponectin concentrations are associated with severity of glucose intolerance in women with previous gestational diabetes mellitus. J Clin Endocrinol Metab. 93(8): 3142-8. Tepper BJ, et al. (2010) Serum retinol-binding protein 4 (RBP4) and retinol in a cohort of borderline obese women with and without gestational diabetes. Clin Biochem. 43(3): 320-3.                                                                                                                                                                                                                                                                                                                                                           |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 55743122                                                                                                      |
| NCBI GeneID                      | 5950                                                                                                          |
| NCBI Accession #                 | NP_006735.2                                                                                                   |
| NCBI GenBank Nucleotide #        | NM_006744.3                                                                                                   |
| UniProt Accession #              | P02753; O43478; O43479; Q5VY24; Q8WWA3; Q9P178; D3DR38                                                        |
| NCBI Official Full Name          | retinol-binding protein 4                                                                                     |
| NCBI Official Synonym Full Names | retinol binding protein 4, plasma                                                                             |
| NCBI Official Symbol             | RBP4                                                                                                          |
| NCBI Official Synonym Symbols    | RDCCAS                                                                                                        |
| NCBI Protein Information         | retinol-binding protein 4; RBP; PRBP; plasma retinol-binding protein; retinol-binding protein 4, interstitial |
| UniProt Protein Name             | Retinol-binding protein 4                                                                                     |
| UniProt Gene Name                | RBP4                                                                                                          |
| UniProt Synonym Gene Names       | PRBP; RBP                                                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/rbp4-antibody-clone-15-flow-cytometry-elisa/254864>