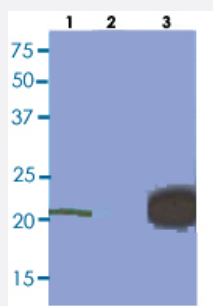


RBP4 monoclonal antibody, clone AT2B4

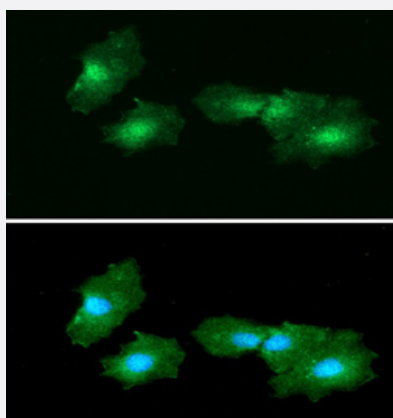
Catalog # MAB3211 Size 100 uL

Applications



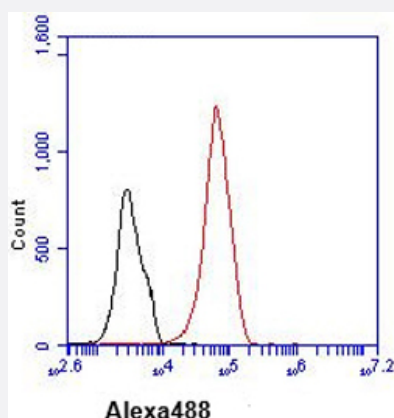
Western Blot

Western blot analysis of Lane 1: HepG2 cell lysate, Lane 2: 293T cell lysate, Lane 3: RBP4 Transfected 293T cell lysate.



Immunofluorescence

Immunofluorescence analysis of Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal RBP4 monoclonal antibody, clone AT2B4 (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



Flow Cytometry

Flow cytometric analysis of HepG2 cell line, staining at 2-5 ug for 1x10⁶ cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant RBP4.
Immunogen	Recombinant protein corresponding to amino acids 19-201 of human RBP4.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Isotype	IgG1, kappa
Recommend Usage	ELISA Flow Cytometry Immunocytochemistry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of Lane 1: HepG2 cell lysate, Lane 2: 293T cell lysate, Lane 3: RBP4 Transfected 293T cell lysate.

- Immunocytochemistry

- Immunofluorescence

Immunofluorescence analysis of Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal RBP4 monoclonal antibody, clone AT2B4 (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of HepG2 cell line, staining at 2-5 ug for 1x10⁶ cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

Gene Info — RBP4

Entrez GeneID	5950
Protein Accession#	NP_006735
Gene Name	RBP4
Gene Alias	-
Gene Description	retinol binding protein 4, plasma
Omim ID	180250
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000020114 OTTHUMP00000020116 retinol-binding protein 4, interstitial retinol-binding protein 4, plasma

Publication Reference

- [Retinol binding protein IV purified from Escherichia coli using intein-mediated cleavage as a suitable replacement for serum sources.](#)

Est CB, Murphy RM.

Protein Expression and Purification 2020 Mar; 167:105542.

Application: WB-Re, Recombinant protein

- [Increased retinol-binding protein 4 \(RBP4\) and anti-RBP4 antibody in alopecia areata.](#)

Ahn KJ, Choi EA, Kim J, Lee JH, Lee KH, Bang D, Cho SB.

The British Journal of Dermatology 2011 Oct; 165(4):837.

Application: IHC-P, Human, Alopecia areata

- [Editorial: Retinol binding protein 4 and pathogenesis of diabetes.](#)

McTernan PG, Kumar S.

The Journal of Clinical Endocrinology and Metabolism 2007 Jul; 92(7):2430.

- [Retinol binding protein 4 expression in humans: relationship to insulin resistance, inflammation, and response to pioglitazone.](#)

Yao-Borengasser A, Varma V, Bodles AM, Rasouli N, Phanavanh B, Lee MJ, Starks T, Kern LM, Spencer HJ 3rd, Rashidi AA, McGehee RE Jr, Fried SK, Kern PA.

The Journal of Clinical Endocrinology and Metabolism 2007 Jul; 92(7):2590.

Application: ELISA, WB-Ti, Human, Human adipose tissue

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [Hyperlipidemias](#)
- [Hypertension](#)
- [Hypertriglyceridemia](#)
- [Insulin Resistance](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Prediabetic State](#)