

RBP4 Antibody (monoclonal) (M05)

Mouse monoclonal antibody raised against a full length recombinant RBP4.

Catalog # AT3602a

Specification

RBP4 Antibody (monoclonal) (M05) - Product Information

Application	WB, IHC, E
Primary Accession	P02753
Other Accession	BC020633
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	23010

RBP4 Antibody (monoclonal) (M05) - Additional Information

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

RBP4 (AAH20633.1, 19 a.a. ~ 201 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

RBP4 Antibody (monoclonal) (M05) is for research use only and not for use in diagnostic or therapeutic procedures.

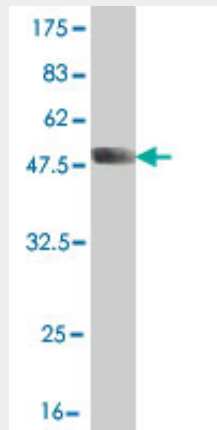
RBP4 Antibody (monoclonal) (M05) - Protocols

Provided below are standard protocols that you may find useful for product applications.

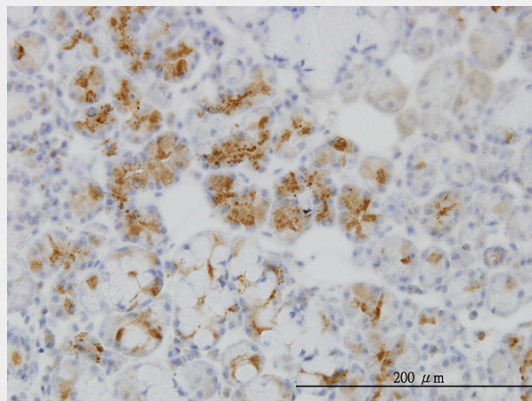
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

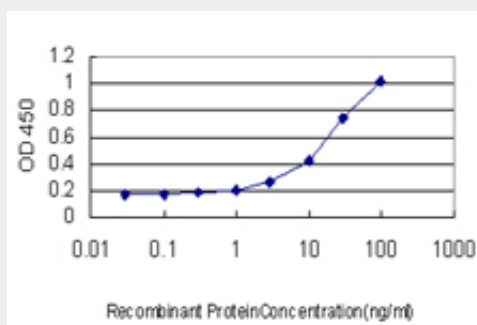
RBP4 Antibody (monoclonal) (M05) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (45.87 KDa) .



Immunoperoxidase of monoclonal antibody to RBP4 on formalin-fixed paraffin-embedded human salivary gland. [antibody concentration 1 ug/ml]



Detection limit for recombinant GST tagged RBP4 is approximately 1ng/ml as a capture antibody.

RBP4 Antibody (monoclonal) (M05) - 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.

RBP4 Antibody (monoclonal) (M05) - References

[Expression and regulation of retinol binding protein 4 mRNA in human adipose tissue in obese and type 2 diabetics] Liu XH, et al. Zhonghua Yi Xue Za Zhi, 2010 May 11. PMID 20646597. Case-control analysis of SNPs in GLUT4, RBP4 and STRA6: association of SNPs in STRA6 with type 2 diabetes in a South Indian population. Nair AK, et al. PLoS One, 2010 Jul 6. PMID 20625434. Decreased retinol binding protein 4 concentrations are associated with cholesterol gallstone disease. Wang SN, et al. J Formos Med Assoc, 2010 Jun. PMID 20610143. Retinol-binding protein 4 levels in obese children and adolescents with glucose intolerance. Yeste D, et al. Horm Res Paediatr, 2010. PMID 20389103. Association of plasma retinol-binding protein 4, adiponectin, and high molecular weight adiponectin with insulin resistance in non-diabetic hypertensive patients. Shim CY, et al. Yonsei Med J, 2010 May. PMID 20376890.