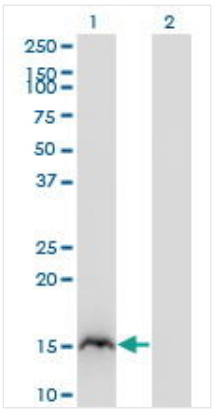
RBP2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	RBP2, Monoclonal Antibody
Full Product Name	RBP2 (Retinol-binding Protein 2, Cellular Retinol-binding Protein II, CRBP-II, CRBP2) (HRP)
Product Gene Name	anti-RBP2 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3G12
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human RBP2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	18 kDa (158aa) confirmed by MALDI-TOF
OMIM	180280
3D Structure	ModBase 3D Structure for P50120
Immunogen	Partial recombinant corresponding to aa45-135, from human RBP2 (NP_004155) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	QDGDNFKTKTTSTFRNYDVDFTVGVEFDEYTKSLDNRHVKALVTWEGDVLVCVQKGEKENRGWKQWIEGDKLYLELTCGDQVCRQVFKKK
Conjugate	HRP
Product Categories/Family for anti-RBP2 antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-RBP2 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-RBP2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-RBP2 antibody	MBS6154574 is an antibody targeting RBP2. Also known as RBP2 (Retinol-binding Protein 2, Cellular Retinol-binding Protein II, CRBP-II, CRBP2) (HRP). Reactive in Human. Host: Mouse.

Other Notes	Small volumes of anti-RBP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-RBP2 antibody
Western Blot analysis of RBP2 expression in transfected 293T cell line by RBP2 monoclonal antibody. Lane 1: RBP2 transfected lysate (15.7kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RBP2. It may not necessarily be applicable to this product.

NCBI GI #	40354214
NCBI GeneID	5948
NCBI Accession #	NP_004155
UniProt Primary Accession #	P50120
UniProt Secondary Accession #	Q6ISQ9; Q6ISS7; A8K7G3
UniProt Related Accession #	P50120
GenBank Nucleotide #	NM_004164
NCBI Official Full Name	retinol-binding protein 2
NCBI Official Synonym Full Names	retinol binding protein 2
NCBI Official Symbol	RBP2
NCBI Official Synonym Symbols	CRBP2; RBPC2; CRBPII; CRABP-II
UniProt Protein Name	Retinol-binding protein 2
UniProt Synonym Protein Names	Cellular retinol-binding protein II; CRBP-II
Protein Family	Retinol-binding protein
UniProt Gene Name	RBP2
UniProt Synonym Gene Names	CRBP2; CRBP-II
UniProt Entry Name	RET2_HUMAN
NCBI Protein Information	retinol-binding protein 2
NCBI Summary for RBP2	This gene encodes an abundant protein present in the small intestinal epithelium. It is thought to participate in the uptake and/or intracellular metabolism of vitamin A. Vitamin A is a fat-soluble vitamin necessary for growth, reproduction, differentiation of epithelial tissues, and vision. This protein may also modulate the supply of retinoic acid to the nuclei of endometrial cells during the menstrual cycle. [provided by RefSeq, Aug 2015]

UniProt Comments for RBP2	RBP2: Intracellular transport of retinol. Belongs to the calycin superfamily. Fatty-acid binding protein (FABP) family. Chromosomal Location of Human Ortholog: 3q23 Cellular Component: cytosol Molecular Function: retinoid binding; transporter activity; retinol binding; retinal binding Biological Process: phototransduction, visible light; epidermis development; transport; retinoid metabolic process; vitamin A metabolic process
Research Articles on RBP2	**1.** Ectopic overexpression of RBP2 can induce cancer stem cell-like (CSC) phenotypes through epithelial to mesenchymal transition in renal cell carcinoma cells by converting them to a more mesenchymal phenotype.
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