

Mouse Anti-Human CRABP1 Monoclonal Antibody

Cat. No. CAB158 Lot. No. (See product label)

SPECIFICATION

Product Overview

Species Human

Source Mouse

Antigen Information

CRABP1 (cellular retinoic acid-binding protein 1) is a member of specific carrier proteins for members of the vitamin A family. CRABP1 is assumed to play an important role in retinoic acid-mediated differentiation and proliferation processes. CRABP1 is structurally similar to the cellular retinol-binding proteins, but binds only retinoic acid. It is constitutively expressed and is believed to have different functions in the cell than the related CRABP2. Interestingly, Sytenol A bakuchiol has very specific receptor specificity over retinol and has no effect on the RAR-beta and RAR-gamma receptors and down-regulates CRABP1.

Immunogen Recombinant human CRABP1 (1-137aa) purified from E. coli.

Isotype Mouse IgG2b heavy chain and k light chain.

Clone Anti-human CRABP1 mAb, clone AT1A1, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human CRABP1 protein.

Concentration 1mg/ml.

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Form	Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.1% Sodium Azide.
Application	ELISA, WB.
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Usage	The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis is 1:500 ~ 1000. Recommended starting dilution is 1:500.
Western Blot Analysis	The extracts of mouse eye (30ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human CRABP1 (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

GENE INFORMATION

Gene Name	CRABP1 cellular retinoic acid binding protein 1 [Homo sapiens]
Synonyms	CRABP1; cellular retinoic acid binding protein 1; RBP5; CRABP; CRABPI; CRABP-I; cellular retinoic acid-binding protein 1; Cellular retinoic acid-binding protein I
Gene ID	1381
mRNA Refseq	NM_004378
Protein Refseq	NP_004369
MIM	180230

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UniProt ID	P29762
Chromosome Location	15q24
Function	lipid binding; retinal binding; retinol binding; transporter activity
PDB rendering based on 1cbi	