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Human CRABP1 antibody

Catalog Number: ATGA0162

PRODUCT INFORMATION

Catalog number
ATGA0162

Clone No.
AT1A1

Product type
Monoclonal Antibody

UnitProt No.
P29762

NCBI Accession No.
NP_004369

Alternative Names
Cellular retinoic acid binding protein 1, CRABP, CRABP-I, CRABPI, RBP5, Cellular retinoic acid binding protein 1 CRABP 1, CRABP I, RBP 5, Retinoic acid binding protein I cellular

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

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

Isotype
IgG2b kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA, WB, ICC/IF, FACS

Usage
The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

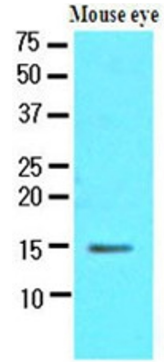
CRABP1 (cellular retinoic acid-binding protein 1) is a member of specific carrier proteins for members of the vitamin A family. CRABP1 is assumed to play an important role in retinoic acid-mediated differentiation and proliferation processes. CRABP1 is structurally similar to the cellular retinol-binding 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.

General References

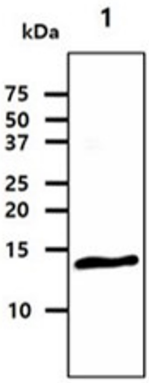
Wang L, et al. (1997) J Biol Chem, 272(3):1541-7.
. Nezzar H, et al. (2007) Mol Vis, 13:1641-50.

DATA

Western blot analysis (WB)



The tissue lysate(30ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CRABP1 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: Mouse Eye Tissue lysate



The cell lysate(40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CRABP1 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: MCF7 cell lysate

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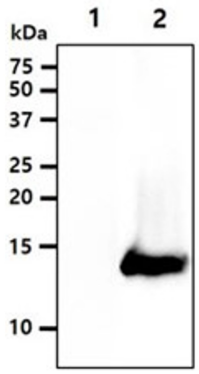
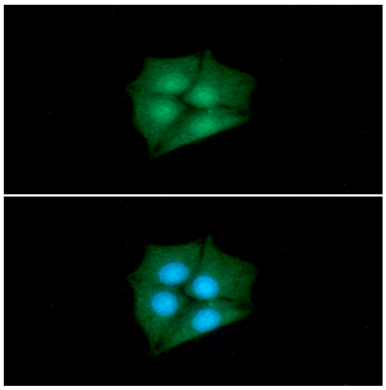


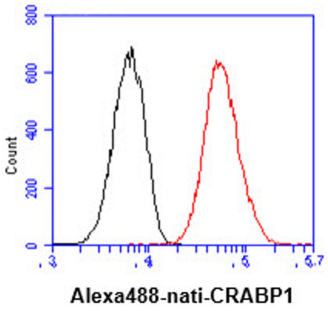
The cell lysates(20ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CRABP1 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1.: 293T cell lysate
Lane 2.: CRABP1 Transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of CRABP1 in Balb/3T3 cells. The cell was stained with ATGA0162 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of CRABP1 in Balb/3T3 cell line, staining at 2-5ug for 1x10^6cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).