Product information

Monoclonal anti-human CRABP1 antibody (clone AT1A1)

Mouse IgG_{2b}, κ

Cat. No. IBATGA0162

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

NCBI Accession No.: NP_004369

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

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

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.

Concentration: 1mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB, Flow cytometry, ICC/IF

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA
Phone: (888) 523-1246 Fax.: (763) 780-2988
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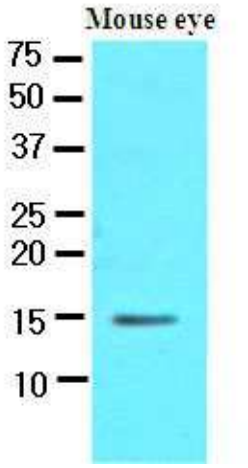
Product information

Western blot analysis

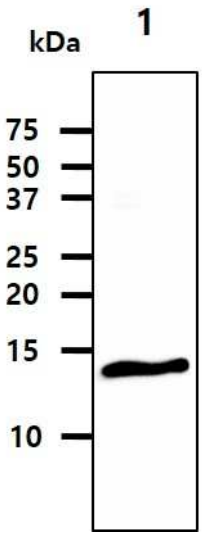
The extracts of mouse eye (30ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human CRABP1 (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Western blot analysis

The Cell lysates (40ug) 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. : MCF-7 cell lysate

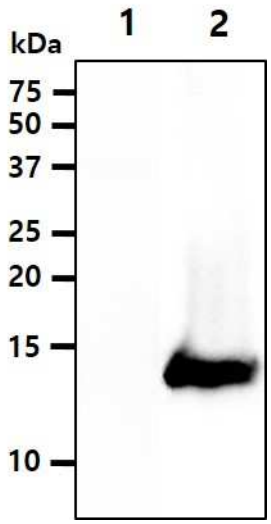


Western blot analysis

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



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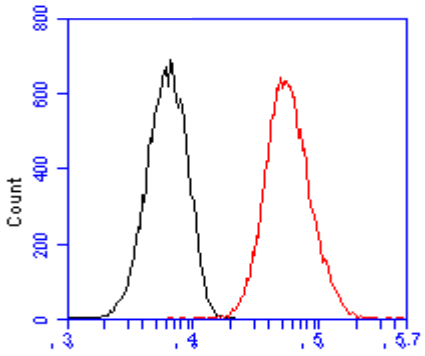
Flow cytometry

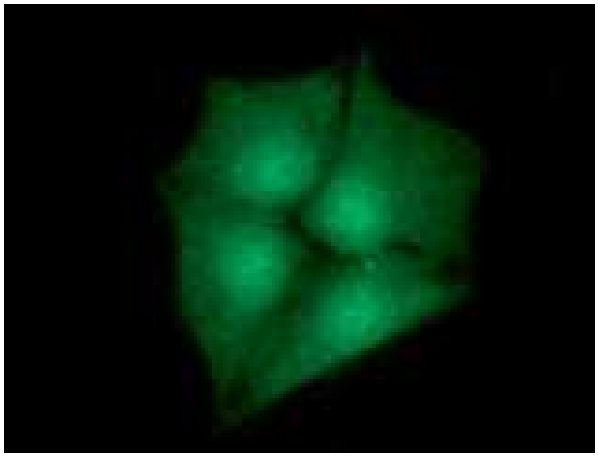
Flow cytometry analysis of CRABP1 in Balb/3T3 cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

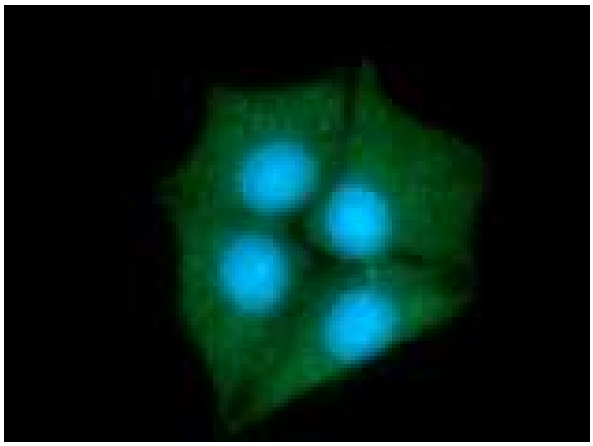


Alexa488-nati-CRABP1

ICC/IF analysis

ICC/IF analysis of CRABP1 in Balb/3T3 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human CRABP1 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).





General references: Wang L, *et al.* (1997) *J Biol Chem*. **272**(3):1541-7.

Nezzar H, *et al.* (2007) *Mol Vis.* **13**:1641-50.

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