Human CRABP2 antibody

Catalog Number: ATGA0134

PRODUCT INFORMATION

Catalog number
ATGA0134

Clone No.
AT2E11

Product type
Monoclonal Antibody

UnitProt No.
P29373

NCBI Accession No.
NP_001869

Alternative Names
Cellular retinoic acid binding protein 2, RBP6, CRABP-II, Cellular retinoic acid binding protein 2, CRABP2, RBP6, CRABP-II, Cellular retinoic acid binding protein 2 Cellular retinoic acid binding protein II, CRABP II, CRABPII

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 CRABP2 (1-138aa) purified from E. coli

Isotype
IgG2a kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA, WB, ICC/IF

Usage
The antibody has been tested by ELISA, Western blot and ICC/IF 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

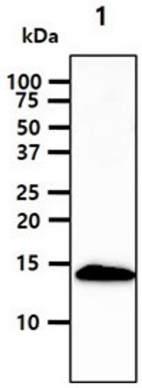
The cellular retinoic acid-binding protein II (CRABP-II) is involved in the conversion of vitamin A into its intracellular active form retinoic acid, which regulate the genes responsible for lipid metabolism and adipocyte differentiation. CRABP2 gene is located on chromosome 1q21-23 and this region has been linked with related disorders such as familial combined hyperlipidemia (FCHL) and type 2 diabetes mellitus.

General References

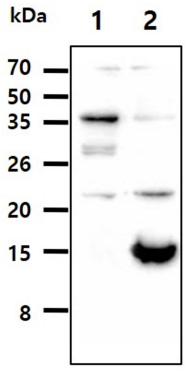
Astrom,A., et al (1991). J. Biol. Chem. 266 (26), 17662-17666.
Gupta,A., et al (2006). Cancer Res. 66 (16), 8100-8108.

DATA

Western blot analysis (WB)



The cell lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CRABP2 antibody (1:250). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1. : MCF-7 cell lysate



The cell lysates (10ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CRABP2 antibody (1:1000). 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. : CRABP2 Transfected 293T cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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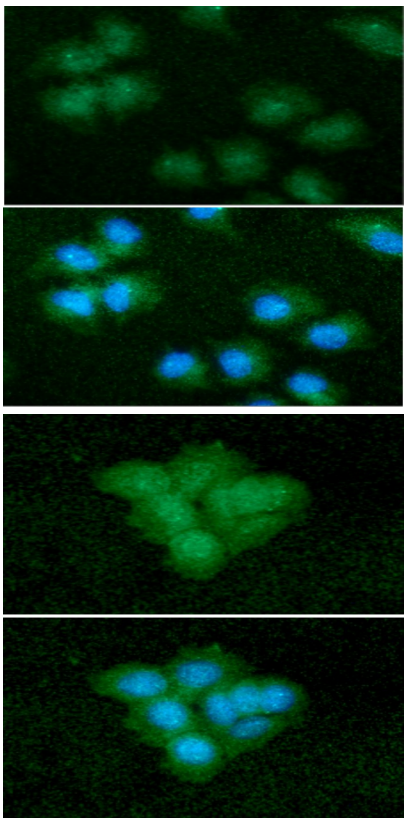

ICC/IF analysis of CRABP2 in HeLa cells. The cell was stained with ATGA0134 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

ICC/IF analysis of CRABP2 in MCF7 cells. The cell was stained with ATGA0134 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).