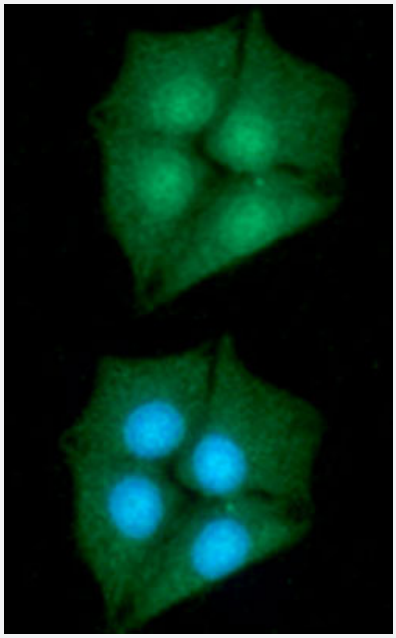
CRABP1 monoclonal antibody, clone AT1A1

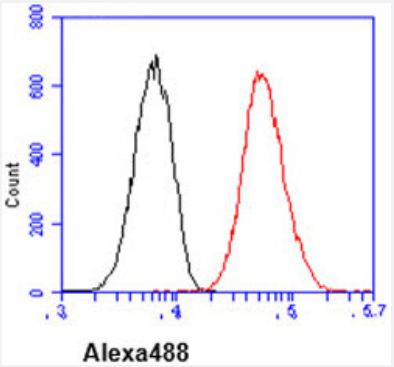
Catalog # MAB7558 Size 100 uL

Applications



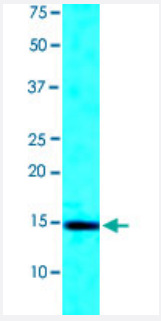
Immunofluorescence

Immunofluorescence analysis of Balb/3T3 cells. The cell was stained with CRABP1 monoclonal antibody, clone AT1A1 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



Flow Cytometry

Flow cytometry analysis of CRABP1 in Balb/3T3 cell line, staining at 2-5 ug 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).



Western Blot (Tissue lysate)

Western blot analysis of mouse eye (30 ug) tissue lysate were resolved by SDS-PAGE, transferred to NC membrane and probed with CRABP1 monoclonal antibody, clone AT1A1 (Cat # MAB7558) (1 : 500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

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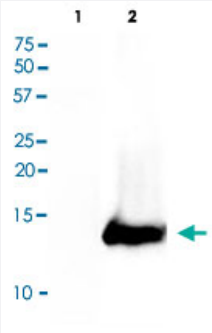

Western Blot

Western blot analysis of Lane 1: 293T cell lysate, Lane 2: CRABP1 Transfected 293T cell lysate.

Specification

Product Description	Mouse monoclonal antibody raised aganist full length recombinant CRABP1.
Immunogen	Recombinant protein corresponding to full length human CRABP1.
Host	Mouse
Reactivity	Human, Mouse
Specificity	This antibody reacts with human CRABP1.
Form	Liquid
Purification	Protein G purification
Isotype	IgG2b, kappa
Recommend Usage	ELISA Flow Cytometry Immunocytochemistry Immunofluorescence Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

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- Immunofluorescence

  Immunofluorescence analysis of Balb/3T3 cells. The cell was stained with CRABP1 monoclonal antibody, clone AT1A1 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

- Immunocytochemistry

- Flow Cytometry

  Flow cytometry analysis of CRABP1 in Balb/3T3 cell line, staining at 2-5 ug 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).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Tissue lysate)

  Western blot analysis of mouse eye (30 ug) tissue lysate were resolved by SDS-PAGE, transferred to NC membrane and probed with CRABP1 monoclonal antibody, clone AT1A1 (Cat # MAB7558) (1 : 500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

- Western Blot

  Western blot analysis of Lane 1: 293T cell lysate, Lane 2: CRABP1 Transfected 293T cell lysate.

Gene Info — CRABP1

Entrez GeneID	1381
Protein Accession#	NP_004369
Gene Name	CRABP1
Gene Alias	CRABP, CRABP-I, CRABPI, RBP5
Gene Description	cellular retinoic acid binding protein 1
Omim ID	180230
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a specific binding protein for a vitamin A family member and is thought to play an important role in retinoic acid-mediated differentiation and proliferation processes. It is structurally similar to the cellular retinol-binding proteins, but binds only retinoic acid at specific sites within the nucleus, which may contribute to vitamin A-directed differentiation in epithelial tissue. [provided by RefSeq
Other Designations	cellular retinoic acid-binding protein 1

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Publication Reference

- Molecular and metabolic retinoid pathways in the human ocular surface.

  Nezzar H, Chiambaretta F, Marceau G, Blanchon L, Faye B, Dechelotte P, Rigal D, Sapin V.

  Molecular Vision 2007 Sep; 13:1641.

- Structure-function relationships of cellular retinoic acid-binding proteins. Quantitative analysis of the ligand binding properties of the wild-type proteins and site-directed mutants.

  Wang L, Li Y, Yan H.

  The Journal of Biological Chemistry 1997 Jan; 272(3):1541.

Disease

- Cleft Lip
- Cleft Palate
- Genetic Predisposition to Disease
- Meningomyelocele

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