

## Monoclonal anti-human FABP7 antibody (clone AT1D1)

Mouse IgG<sub>2b</sub>, κ

Cat. No. IBATGA0131

**Immunogen:** Recombinant human FABP7 (1-132aa) purified from *E. coli*

**NCBI Accession No.:** NP\_001437

**Isotype:** Mouse IgG<sub>2b</sub> heavy chain and κ light chain

**Clone:** Anti-human FABP7 mAb, clone AT1D1, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human FABP7 protein.

**Description:** FABP7 (Fatty acid binding protein 7) is also known as brain fatty acid-binding protein (B-FABP) and is a member of fatty acid-binding proteins (FABPs) which are a family of small, highly conserved, cytoplasmic proteins to bind long-chain fatty acids and other hydrophobic ligands. FABP7 is expressed in radial glia by the activation of Notch receptors and binds DHA with the highest affinity among all of FABPs.

**Concentration:** 1 mg/ml

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

**Storage:** Can be stored at +4C. For long term storage, aliquot and store at -20C. 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

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

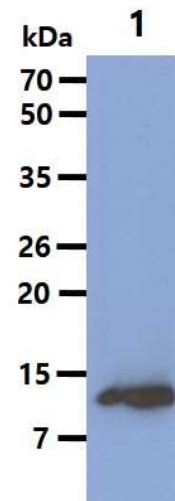
Immuno-Biological Laboratories, Inc. (IBL-America)  
8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA  
Phone: (888) 523-1246 Fax.: (763) 780-2988  
Email: [info@ibl-america.com](mailto:info@ibl-america.com) Web: [www.ibl-america.com](http://www.ibl-america.com)

# Product information

## Western blot analysis

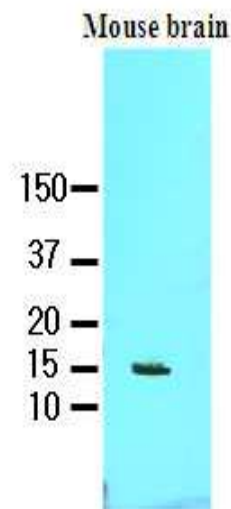
The Mouse tissue lysate (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human FABP7 antibody (1:3000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Testis tissue lysate



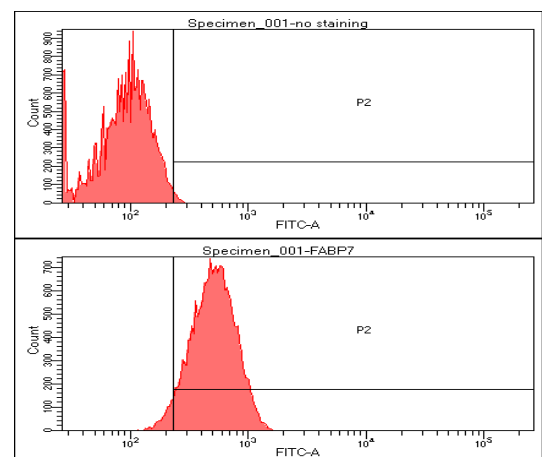
## Western blot analysis

Cell lysates of mouse brain (60ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human FABP7 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



## Flow cytometry

Flow cytometry analysis of FABP7 in U87MG cell line, staining at 2-5ug for  $1 \times 10^6$  cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.



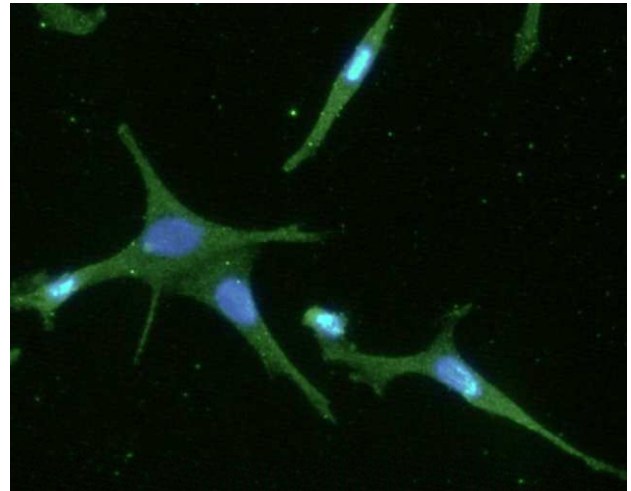
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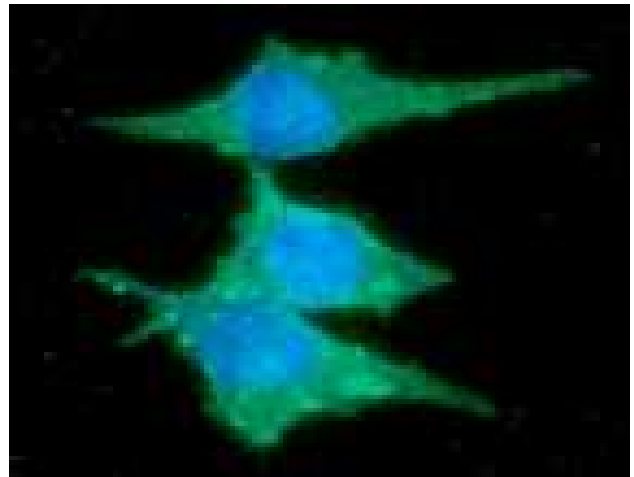
## ICC/IF analysis

ICC/IF analysis of FABP7 in U87MG cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human FABP7 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



## ICC/IF analysis

ICC/IF analysis of FABP7 in PC3 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human FABP7 antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



**General references:** Borchers T., *et al.* (1997) *Prostaglandins Leukot Essent Fatty Acids*. **57(1)**: 77-84.  
Liu Rz., *et al.* (2003) *Eur J Biochem*. **270(4)**: 715–725.

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