

FABP7 Antibody

FABP7 (IN): Fatty acid binding protein 7, B-FABP, MRG, BLBP

CATALOG No.:4259

BACKGROUND:

FABP7 was initially isolated from a human fetal brain cDNA library and whose mRNA was expressed in adult brain and muscle tissues at low levels (1). The protein encoded by this gene is a member of the fatty acid binding protein (FABPs) family, a group of small, highly conserved, cytoplasmic proteins that bind long-chain fatty acids and other hydrophobic ligands. FABPs are thought to play roles in fatty acid uptake, transport, and metabolism (2). FABP7 is a downstream gene of the Pax6 transcription factor and has been suggested to be essential for the maintenance of neuroepithelial cells during early cortical development (3). More recently, FABP7 was found to be frequently expressed in melanomas. Down-regulation of FABP7 through RNAi expression could reduce in vitro cell proliferation and Matrigel invasion, suggesting that FABP7 may be a potential target for the development of diagnostic and therapeutic tools (4).

SOURCE:

Rabbit polyclonal FABP7 antibody was raised against a 17 amino acid peptide from near the center of human FABP7 (GenBank accession no. EAW48166).

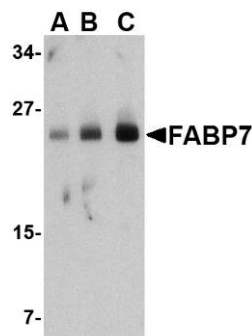
APPLICATION:

FABP7 antibody can be used for detection of FABP7 by Western blot at 0.5 – 1 µg/ml. (Optimal dilution should be determined by user.) Human breast tissue lysate can be used as positive control. FABP7 antibody is human specific.

For research use only.

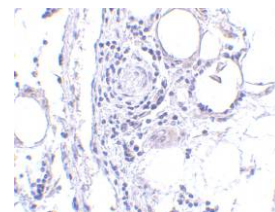
STORAGE:

FABP7 antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of FABP7 in human breast tissue lysate with FABP7 antibody at (A) 0.5, (B) 1 and (C) 2 µg/ml.

Immunohistochemistry of FABP7 in human breast tissue with FABP7 antibody at 5 µg/ml.



RELATED PRODUCTS:

Blocking Peptide, Catalog No. **4259P**.

Human Breast Tissue Lysate, Catalog No. **1311**.

REFERENCES:

1. Shimizu F, Watanabe TK, Shinomiya H, et al. Isolation and expression of a cDNA for human brain fatty acid-binding protein (B-FABP). *Biochim. Biophys. Acta* 1997; 1354:24-8.
2. Chmurzynska A. The multigene family of fatty acid-binding proteins (FABPs): function, structure and polymorphism. *J. Appl. Genet.* 2006; 47:39-48.
3. Arai Y, Funatsu N, Numayama-Tsuruta K, et al. Role of FABP7, a downstream gene of pax6, in the maintenance of neuroepithelial cells during early embryonic development of the rat cortex. *J. Neurosci.* 2005; 25:9752-61.
4. Goto Y, Matsuzaki Y, Kurihara S, et al. A new melanoma antigen fatty acid-binding protein 7, involved in proliferation and invasion, is a potential target for immunotherapy and molecular target therapy. *Cancer Res.* 2006; 66:4443-9. (08-02D)