

AP30326PU-N**Polyclonal Antibody to FABP7 (Center) - Aff - Purified****Alternate names:**

B-FABP, BLBP, Fatty acid binding protein 7, MRG

Quantity:

0.1 mg

Concentration:

1 mg/ml

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. 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. 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. 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.

Uniprot ID:[Q9H047](#)**NCBI:**[EAW48166](#)**Host / Isotype:**

Rabbit / IgG

Immunogen:

FABP7 antibody was raised against a 17 amino acid peptide from near the center of human FABP7. (AP30326CP-N)

Format:**State:** Liquid purified Ig fraction**Purification:** Affinity chromatography purified via peptide column**Buffer System:** PBS containing 0.02% sodium azide.**Applications:**

ELISA.

Western Blot: 0.5 – 1 µg/ml.

Immunohistochemistry.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody reacts to FABP7.

Species: Human.

Other species not tested.

Add. Information:

Blocking peptide available: blocking peptide (AP30326CP-N)

Storage:

Store the antibody undiluted at 2-8°C.

Shelf life: one year from despatch.

General Readings:

1. Shimizu F, Watanabe TK, Shinomiya H, Nakamura Y, Fujiwara T. Isolation and expression of a cDNA for human brain fatty acid-binding protein (B-FABP). *Biochim Biophys Acta.* 1997 Oct 9;1354(1):24-8. PubMed PMID: 9375786.

2. Chmurzyńska A. The multigene family of fatty acid-binding proteins (FABPs): function, structure and polymorphism. *J Appl Genet.* 2006;47(1):39-48. PubMed PMID:

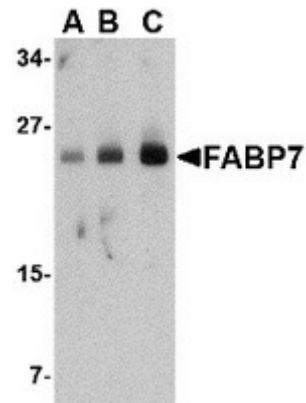
16424607.

3. Arai Y, Funatsu N, Numayama-Tsuruta K, Nomura T, Nakamura S, Osumi N. 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 Oct 19;25(42):9752-61. PubMed PMID: 16237179.

4. Goto Y, Matsuzaki Y, Kurihara S, Shimizu A, Okada T, Yamamoto K, 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 Apr 15;66(8):4443-9. PubMed PMID: 16618771.

Pictures:

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



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

