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FABP4 Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO1202a

Product Information

Application	WB, E
Primary Accession	P15090
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	5H11A4E11
Isotype	IgG1
Calculated MW	14719
Description	FABP4: fatty acid binding protein 4, adipocyte. FABP4 encodes the fatty acid binding protein found in adipocytes. Fatty acid binding proteins are a family of small, highly conserved, cytoplasmic proteins that bind long-chain fatty acids and other hydrophobic ligands. It is thought that FABPs roles include fatty acid uptake, transport, and metabolism.
Immunogen	Purified recombinant fragment of FABP4 (aa61-121) expressed in E. Coli.
Formulation	Ascitic fluid containing 0.03% sodium azide.

Additional Information

Gene ID	2167
Other Names	Fatty acid-binding protein, adipocyte, Adipocyte lipid-binding protein, ALBP, Adipocyte-type fatty acid-binding protein, A-FABP, AFABP, Fatty acid-binding protein 4, FABP4
Dilution	WB~~1/500 - 1/2000 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FABP4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FABP4
Function	Lipid transport protein in adipocytes. Binds both long chain fatty acids and

retinoic acid. Delivers long-chain fatty acids and retinoic acid to their cognate receptors in the nucleus.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P04117}. Nucleus {ECO:0000250|UniProtKB:P04117}. Note=Depending on the nature of the ligand, a conformation change exposes a nuclear localization motif and the protein is transported into the nucleus. Subject to constitutive nuclear export. {ECO:0000250|UniProtKB:P04117}

References

1. J Biol Chem. 2004 Dec 10;279(50):52399-405. 2. Mol Cell Proteomics. 2005 Apr;4(4):570-81.

Images

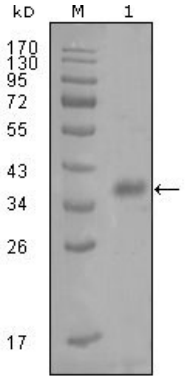

Figure 1: Western blot analysis using FABP4 mouse mAb against truncated Trx-FABP4 recombinant protein (1).

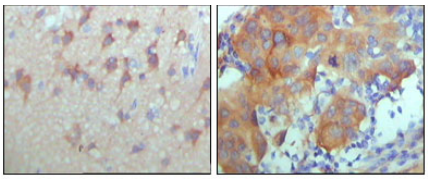

Figure 2: Immunohistochemical analysis of paraffin-embedded human cerebra (left) and breast carcinoma tissue (right),showing cytoplasmic and membrane location with DAB staining using ERBB3 mouse mAb.