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FABP4 Antibody (Y20)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2764d

Product Information

Application	WB, E
Primary Accession	P15090
Other Accession	P70623, O97788, P04117, P48035
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB16245
Calculated MW	14719
Antigen Region	1-30

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
Target/Specificity	This FABP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from human FABP4.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	FABP4 Antibody (Y20) 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}

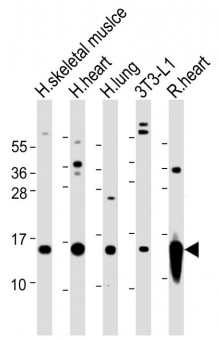
Background

FABP4 is a 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.

References

Cabre,A., J. Lipid Res. 49 (8), 1746-1751 (2008)
Fasshauer,M., Am. J. Hypertens. 21 (5), 582-586 (2008)
Cabre,A., Clin. Chem. 54 (1), 181-187 (2008)

Images



All lanes : Anti-FABP4 Antibody (Y20) at 1:2000 dilution Lane 1: Human skeletal muslce lysate Lane 2: Human heart lysate Lane 3: Human lung lysate Lane 4: 3T3-L1 whole cell lysate Lane 5: Rat heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 15 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- MicroRNA-199a Targets the Fatty Acid Transport Protein 1 Gene and Inhibits the Adipogenic Trans-Differentiation of C2C12 Myoblasts.