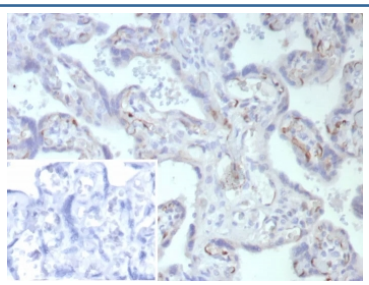
Fatty Acid Binding Protein 4 Antibody / FABP4 [clone FABP4/9086R] (V5488)

Catalog No.	Formulation	Size
V5488-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5488-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5488SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

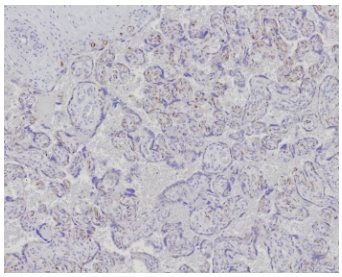
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	FABP4/9086R
Purity	Protein A/G affinity
UniProt	P15090
Localization	Cytoplasm, Nucleus
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western blot: 2-4ug/ml
Limitations	This Fatty Acid Binding Protein 4 antibody is available for research use only.



IHC staining of FFPE human placental tissue with Fatty Acid Binding Protein 4 antibody (clone FABP4/9086R). Inset: PBS used in place of primary Ab (secondary Ab negative control). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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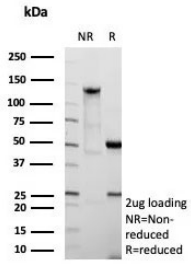
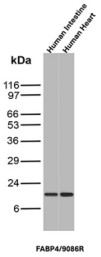


SDS-PAGE analysis of purified, BSA-free Fatty Acid Binding Protein 4 antibody (clone FABP4/9086R) as confirmation of integrity and purity.



Fatty Acid Binding Protein 4 Antibody Multi-Tissue WB. Western blot analysis of human intestine and human heart tissue lysates using Fatty Acid Binding Protein 4 antibody clone FABP4/9086R. A prominent band is detected near 14-15 kDa, consistent with the expected molecular weight range of FABP4. The observed expression pattern supports the cytoplasmic role of FABP4 in intracellular fatty acid transport, lipid metabolism signaling, and adipocyte-associated metabolic regulation pathways across metabolically active human tissues.

Description

Fatty acid-binding proteins, designated FABPs, are a family of homologous, cytoplasmic proteins that are expressed in a highly tissue-specific manner and play an integral role in the balance between lipid and carbohydrate metabolism. FABPs mediate fatty acid (FA) and/or hydrophobic ligand uptake, transport and targeting within their respective tissues. The mechanisms underlying these actions can give rise to both passive diffusional uptake and protein-mediated transmembrane transport of FAs. FABPs are expressed in adipocytes (A-FABP), brain (B-FABP), epidermis (E-FABP, also designated psoriasis-associated FABP or PA-FABP), muscle and heart (H-FABP, also designated mammary-derived growth inhibitor or MDGI), intestine (I-FABP), liver (L-FABP), myelin (M-FABP) and testis (T-FABP). The human A-FABP gene is organized into 4 exons, maps to chromosome 8q21.13, and encodes a 132 amino acid protein. A-FABP protein comprises approximately 1% of the total cytosolic protein in human adipose tissue.

Additional studies involving adipocyte biology, lipid transport signaling, and metabolic-inflammatory pathway regulation may benefit from our FABP4 antibody page featuring clone FABP4/4424 with HuProt protein microarray specificity validation.

Application Notes

Optimal dilution of the Fatty Acid Binding Protein 4 antibody should be determined by the researcher.

Immunogen

A recombinant fragment (within amino acids 1-132) of human FABP4 protein was used as the immunogen for the Fatty Acid Binding Protein 4 antibody.

Storage

Aliquot the Fatty Acid Binding Protein 4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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