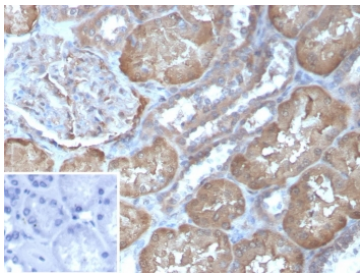
Fatty Acid Binding Protein 1 Antibody / FABP1 [clone FABP1/4463] (V5439)

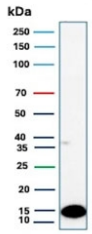
Catalog No.	Formulation	Size
V5439-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5439-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5439SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

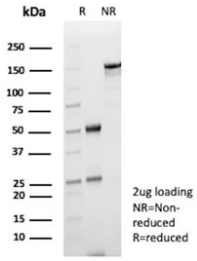
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2, kappa
Clone Name	FABP1/4463
Purity	Protein A/G affinity
UniProt	P07148
Localization	Cytoplasm, Nucleus
Applications	Western Blot : 2-4ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Fatty Acid Binding Protein 1 antibody is available for research use only.



IHC staining of FFPE human kidney tissue with Fatty Acid Binding Protein 1 antibody (clone FABP1/4463). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



Western blot testing of human kidney tissue lysate using Fatty Acid Binding Protein 1 antibody (clone FABP1/4463). Predicted molecular weight: ~14 kDa.



SDS-PAGE analysis of purified, BSA-free Fatty Acid Binding Protein 1 antibody (clone FABP1/4463) as confirmation of integrity and purity.

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), epithelium (E-FABP, psoriasis-associated FABP, PA-FABP), striated muscle and heart (H-FABP, mammary-derived growth inhibitor or MDGI), intestine (I-FABP), liver (L-FABP or FABP1), myelin (M-FABP) and testis (T-FABP). FABP1 (L-FABP) expression is modulated by developmental, hormonal, dietary and pharmacological factors, and is required for cholesterol synthesis and metabolism.

Application Notes

Optimal dilution of the Fatty Acid Binding Protein 1 antibody should be determined by the researcher.

Immunogen

A human recombinant FABP1 protein fragment (within amino acids 1-127) was used as the immunogen for the Fatty Acid Binding Protein 1 antibody.

Storage

Aliquot the Fatty Acid Binding Protein 1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.