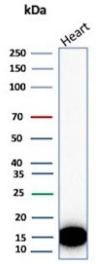
H-FABP Antibody / Heart Fatty Acid Binding Protein / FABP3 [clone rFABP3/8534] (V4872)

Catalog No.	Formulation	Size
V4872-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4872-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4872SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

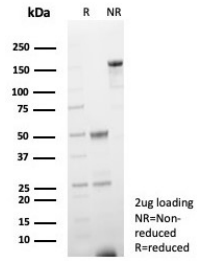
Recombinant | MOUSE MONOCLONAL

Bulk quote request

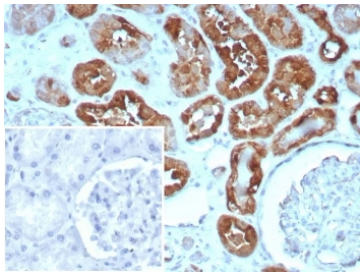
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rFABP3/8534
Purity	Protein A/G affinity
UniProt	P05413
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT Western Blot : 2-4ug/ml
Limitations	This H-FABP antibody is available for research use only.



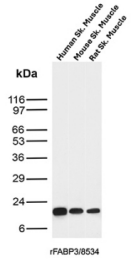
H-FABP Antibody Heart WB. Western blot testing of human heart lysate with H-FABP antibody. Predicted molecular weight ~14 kDa.



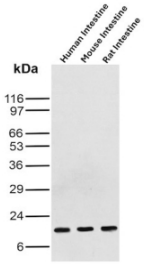
SDS-PAGE analysis of purified, BSA-free H-FABP antibody (clone rFABP3/8534) as confirmation of integrity and purity.



H-FABP Antibody Heart IHC. Immunohistochemistry staining of FFPE human heart tissue with H-FABP antibody (clone rFABP3/8534). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



FABP3 Antibody Skeletal Muscle WB. Western blot analysis of human skeletal muscle, mouse skeletal muscle, and rat skeletal muscle tissue lysates using FABP3 antibody clone rFABP3/8534. A clear band is detected at approximately 15 kDa across all skeletal muscle samples, consistent with the predicted molecular weight of Fatty acid-binding protein 3 / FABP3. The conserved expression pattern among multiple mammalian species is consistent with the known role of FABP3 in fatty acid transport and oxidative energy metabolism within striated muscle tissue.



FABP3 Antibody Intestine WB. Western blot analysis of human intestine, mouse intestine, and rat intestine tissue lysates using FABP3 antibody clone rFABP3/8534. A distinct band is detected at approximately 15 kDa in all intestinal samples, consistent with the predicted molecular weight of Fatty acid-binding protein 3 / FABP3. The observed intestinal expression pattern supports the known role of FABP3 in intracellular fatty acid trafficking and lipid metabolism within metabolically active epithelial tissues.

Description

H-FABP Antibody specifically detects Heart Fatty Acid Binding Protein, also called FABP3. The intracellular fatty acid-binding proteins (FABPs) belongs to a multigene family. FABPs are divided into at least three distinct types, namely the hepatic-, intestinal- and cardiac-type. They form 14-15 kDa proteins and are thought to participate in the uptake, intracellular metabolism and/or transport of long-chain fatty acids. They may also be responsible in the modulation of cell growth and proliferation. Fatty acid-binding protein 3 gene contains four exons and its function is to arrest growth of mammary epithelial cells. This gene is a candidate tumor suppressor gene for human breast cancer. Alternative splicing results in multiple transcript variants.

Explore our FABP3 Antibody page for additional western blot, immunohistochemistry, and microarray specificity validation data supporting studies of myocardial lipid transport and oxidative metabolism.

Application Notes

Optimal dilution of the H-FABP antibody should be determined by the researcher.

Immunogen

A recombinant partial protein sequence (within amino acids 1-127) from the human protein was used as the immunogen

for the H-FABP antibody.

Storage

Aliquot the H-FABP antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.