

## Fatty Acid Binding Protein 4 (FABP4) Antibody

Mouse Monoclonal Antibody [Clone FABP4/4423]

Catalog No	Format	Size
2167-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2167-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2167-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

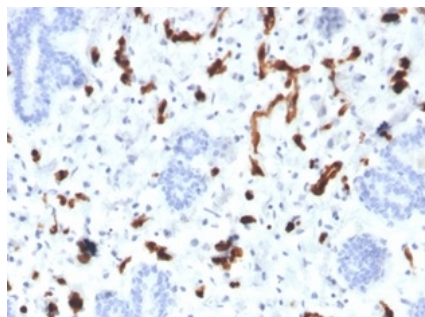
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

### Product Details

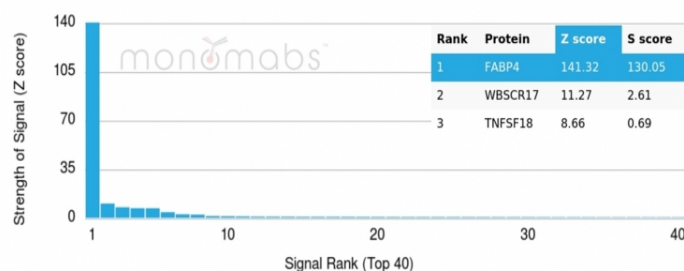
<b>Clone</b>	FABP4/4423
<b>Gene Name</b>	FABP4
<b>Immunogen</b>	Recombinant fragment (around aa1-132) of human FABP4 protein (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	15kDa
<b>Cellular Localization</b>	Cytoplasm, Nucleus
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Human adipose tissue.

\*Optimal dilution for a specific application should be determined.

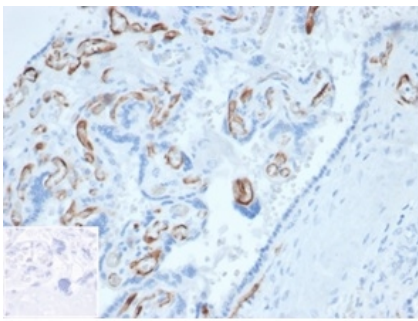
### Product Images for Fatty Acid Binding Protein 4 (FABP4) Antibody



Formalin-fixed, paraffin-embedded human placenta stained with FABP4 Mouse Monoclonal Antibody (FABP4/4423).



Analysis of Protein Array containing more than 19,000 full-length human proteins using FABP4 Mouse Monoclonal Antibody (FABP4/4423). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Formalin-fixed, paraffin-embedded human placenta stained with FABP4 Mouse Monoclonal Antibody (FABP4/4423) at 2ug/ml. Inset: PBS instead of primary antibody, secondary only negative control.

### Specificity & Comments

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.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Cardiovascular, Developmental Biology, Dendritic Cell Marker, Endothelial Cell Marker, Mesenchymal Stem Cell Differentiation