

FABP3 (A7) Mouse mAb

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	14	Mouse IgG1	#P05413	2170

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

FABP3 (A7) Mouse mAb recognizes endogenous levels of total FABP3 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human FABP3 protein.

Background

Fatty acid binding proteins (FABPs) are cytoplasmic lipid chaperones that bind fatty acids and lipids for transport to various cellular components (1,2). Research studies demonstrate differential FABP expression in several types of tumors and their normal-cell counterparts (3). Fatty acid binding protein 3 (FABP3) is predominantly expressed in heart, skeletal muscle, brain, and mammary gland (4). FABP3 may play a role in supplying energy to the heart and other tissues (5). The release of FABP3 from the heart upon infarction is used as a serum marker for myocardial stress and cardiotoxicity (6). Additional studies suggest that FABP3 is a potential tumor suppressor in breast cancer (7).

Background References

1. Storch, J. and Thumser, A.E. (2010) *J Biol Chem* 285, 32679-83.
2. Haunerland, N.H. and Spener, F. (2004) *Prog Lipid Res* 43, 328-49.
3. Khan, S.H. and Sorof, S. (1994) *Proc Natl Acad Sci U S A* 91, 848-52.
4. Heuckeroth, R.O. et al. (1987) *J Biol Chem* 262, 9709-17.
5. Binas, B. et al. (1999) *FASEB J* 13, 805-12.
6. Lippi, G. et al. (2013) *Clin Biochem* 46, 26-30.
7. Nevo, J. et al. (2010) *Oncogene* 29, 6452-63.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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