

Phone: 888-466-3604 Fax: 925-215-2184 Email: boster@bosterbio.com Web: www.bosterbio.com

# Polyclonal Anti- Cardiac FABP Picoband<sup>™</sup> Antibody

Catalog Number: PB9759

## Description

Gene Name	fatty acid binding protein 3, muscle and heart (mammary-derived growth inhibitor)			
Recommended Protein Name	Fatty acid-binding protein, heart			
Lot No.	0971512Da0959116			
Size	100µg/vial			
Form	lyophilized			
lg type	Rabbit IgG			
Specificity	No cross reactivity with other proteins.			
Purification	Immunogen affinity purified.			
Species	Reacts with: mouse, rat			
	Predicted to work with: human			
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human Cardiac			
	FABP (15-48aa KNFDDYMKSLGVGFATRQVASMTKPTTIIEKNGD), identical to the			
	related mouse and rat sequences.			
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .			

## Application

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Rat	Hu	-
Immunohistochemistry	0.5-1µg/ml	Ms, Rat	Hu	By Heat
(Paraffin-embedded Section)				

Tested Species: In-house tested species with positive results.

Predicted Species: Species predicted to be fit for the product based on sequence similarities.

By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

## Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500µg/ml.

**Storage:** At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

#### Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IHC(P).

### Background

Heart-type fatty acid binding protein (hFABP), also known as mammary-derived growth inhibitor, is a protein that in humans is encoded by the FABP3 gene. The intracellular fatty acid-binding proteins (FABPs) belong to a multigene family. Fatty acid-binding protein 3 gene contains four exons and its function is to arrest growth of mammary epithelial cells. This gene is also a candidate tumor suppressor gene for human breast cancer. Cardiac-type fatty acid-binding protein (cFABP) from human heart muscle of three individuals was isolated and characterized as pl 5.3-cFABP.

### Reference

- 1. "Entrez Gene: FABP3 fatty acid binding protein 3, muscle and heart (mammary-derived growthinhibitor)".
- 2. Borchers, T., Hojrup, P., Nielsen, S. U., Roepstorff, P., Spener, F., Knudsen, J. Revision of the amino acid sequence of human heart fatty acid binding protein. Molec. Cell. Biochem. 98: 127-133, 1990.
- Phelan CM, Larsson C, Baird S, Futreal PA, Ruttledge MH, Morgan K, Tonin P, Hung H, Korneluk RG, Pollak MN, Narod SA (Dec 1996). "The human mammary-derived growth inhibitor (MDGI) gene: genomic structure and mutation analysis in human breast tumors". Genomics 34 (1): 63–8.