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Polyclonal Anti- Cardiac FABP Picoband[™] 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 ₂ HPO ₄ , 0.05mg NaN ₃ . | | | |

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.