

Polyclonal Anti-ABI-1

Catalogue No. PA1001

Lot No. 03A01

Ig type: rabbit IgG

Size: 100µg/vial

Specificity

Human, mouse, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)

Immunocytochemistry

Manufactured by

Boster Biological Technology

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of human ABI-1, different from the related rat and mouse sequence by single amino acid

Purity

Immunogen affinity purified.

Application

Western blot

At 1-2µg/ml with the appropriate system to detect Abi-1 in cells and tissues.

Immunohistochemistry(P)

At 0.5-1µg/ml to detect Abi-1 in formalin fixed and paraffin embedded tissues.

Immunohistochemistry(F)

At 0.5-1µg/ml to detect Abi-1 in formalin or acetone fixed tissues.

Immunocytochemistry

At 0.5-1µg/ml to detect Abi-1 in acetone fixed cell. Antigen retrieval by Pepsin and Trypsin is required.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

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 longer time.

Optimum Biotech

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Relative detection systems

Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IH and IC.

BACKGROUND

ABI1 is a human homolog of mouse Abl-interactor-1 (Abi1), mapped on 10p11.2. ABI1 participate in the transduction of signals from Ras to Rac by regulating Rac-specific guanine nucleotide exchange factor (GEF) activities. ABI1 dramatically promoted ABL1-mediated tyrosine phosphorylation of MENA, but not of other substrates. Abi-1 regulates c-Abl-mediated phosphorylation of Mena by interacting with both proteins. ABI1 plays a role in the leukemogenesis by translocating to MLL.

REFERENCE

1. Tani, K.; Sato, S.; Sukezane, T.; Kojima, H.; Hirose, H.; Hanafusa, H.; Shishido, T. : Abl interactor 1 promotes tyrosine 296 phosphorylation of mammalian Enabled (Mena) by c-Abl kinase. *J. Biol. Chem.* 278: 21685-21692, 2003.
2. Taki, T.; Shibuya, N.; Taniwaki, M.; Hanada, R.; Morishita, K.; Bessho, F.; Yanagisawa, M.; Hayashi, Y. : ABI-1, a human homolog to mouse Abl-interactor 1, fuses the MLL gene in acute myeloid leukemia with t(10;11)(p11.2;q23). *Blood* 92: 1125-1130, 1998.