Product datasheet

Anti-ABI2 Antibody

Catalog Number: *A04302*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
Web: www.boster.com ***Phone:*** 027-67845390/1/2 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-ABI2 Antibody
Gene Name	ABI2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human ABI2 recombinant protein (Position: H151-D400).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	56 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Abl interactor 2 also known as Abelson interactor 2 (Abi-2) is a protein that in humans is encoded by the ABI2 gene. Enables several functions, including SH3 domain binding activity; identical protein binding activity; and ubiquitin protein ligase binding activity. Contributes to small GTPase binding activity. Involved in Rac protein signal transduction; positive regulation of cellular component organization; and zonula adherens assembly. Acts upstream of or within peptidyl-tyrosine phosphorylation. Located in several cellular components, including filopodium tip; lamellipodium; and nucleoplasm. Part of SCAR complex. Is active in adherens junction. Colocalizes with actin filament.

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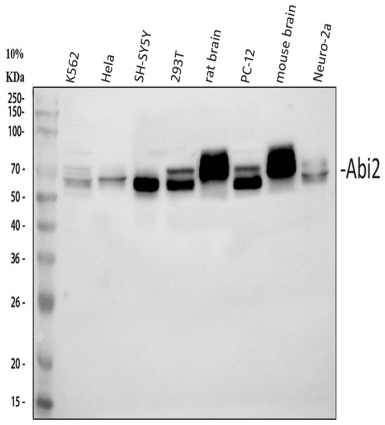
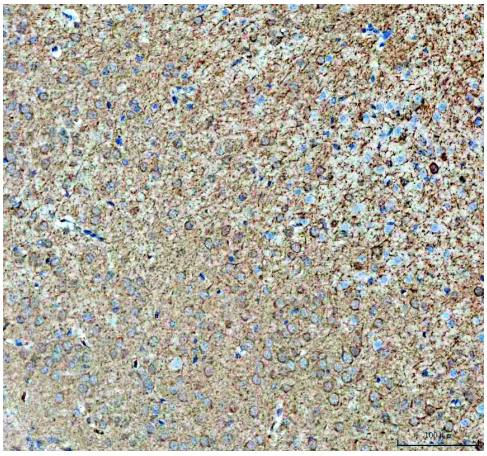
Selected Validation Data



Western blot analysis of ABI2 using anti-ABI2 antibody (A04302). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human K562 whole cell lysates,
Lane 2: human Hela whole cell lysates,
Lane 3: human SH-SY5Y whole cell lysates,
Lane 4: human 293T whole cell lysates,
Lane 5: rat brain tissue lysates,
Lane 6: rat PC-12 whole cell lysates,
Lane 7: mouse brain tissue lysates,
Lane 8: mouse Neuro-2a whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ABI2 antigen affinity purified polyclonal antibody (A04302) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ABI2 at approximately 56-70 kDa. The expected band size for ABI2 is at 56 kDa.



IHC analysis of ABI2 using anti-ABI2 antibody (A04302) .
ABI2 was detected in a paraffin-embedded section of mouse brain tissue. The tissue section was incubated with rabbit anti-ABI2 Antibody (A04302) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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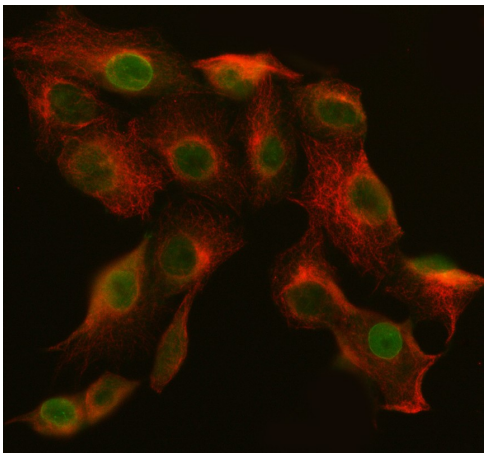
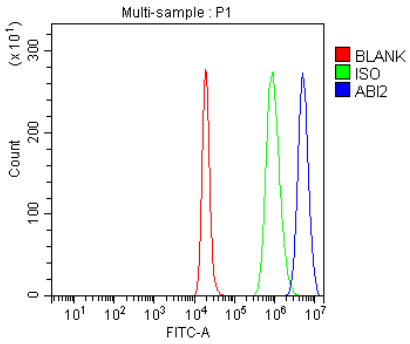


ICC/IF analysis of ABI2 using anti-ABI2 antibody (A04302) and anti-Beta Tubulin antibody (M05613-4).
ABI2 was detected in an immunocytochemical section of A549 cells. The section was incubated with rabbit anti-ABI2 Antibody (A04302) at a dilution of 1:100. Fluoro488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) and Cy3-conjugated Anti-mouse IgG Secondary Antibody (red)(Catalog#BA1031) were used as secondary antibody.



Flow Cytometry analysis of SH-SY5Y cells using anti-ABI2 antibody (A04302).
Overlay histogram showing SH-SY5Y cells stained with A04302 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ABI2 Antibody (A04302) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.