BOSTER BIOLOGICAL TECHNOLOGY
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Anti-FAM40B/STRIP2 Antibody Picoband®

Catalog Number: A12139

About STRIP2

The STRIP2 gene encodes a protein known as striatin-interacting protein 2, which interacts with striatin, a scaffolding protein involved in diverse cellular processes such as signaling, cell adhesion, and transcriptional regulation. STRIP2 is implicated in cardiac development and function, where it modulates cardiac hypertrophy, contractility, and arrhythmogenesis. Additionally, it plays roles in neuronal development and synaptic plasticity in the brain. Dysregulation of STRIP2 expression or function has been associated with various cardiovascular disorders, including hypertrophic cardiomyopathy and arrhythmias, as well as neurodevelopmental disorders such as autism spectrum disorders. Elucidating the molecular mechanisms underlying STRIP2 function is essential for understanding its physiological roles in cardiac and neural tissues and its potential implications for disease pathology and therapeutic targeting.

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Overview

Product Name	Anti-FAM40B/STRIP2 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-FAM40B/STRIP2 Antibody Picoband® catalog # A12139. Tested in WB, IHC, FCM, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q9ULQ0

Technical Details

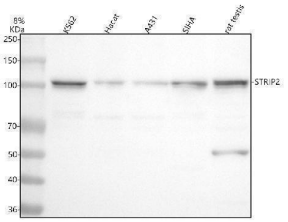
Immunogen	E.coli-derived human FAM40B/STRIP2 recombinant protein (Position: H173-Q507). Human

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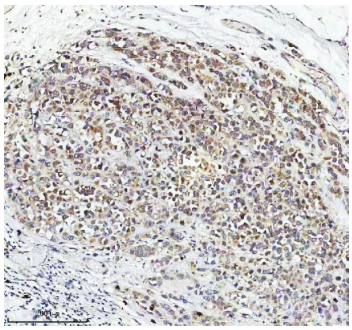
	STRIP2 shares 96.4% amino acid (aa) sequence identity with mouse STRIP2.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Human, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 ug/1x10^6 cells, Human ELISA, 0.1-0.5 ug/ml, - Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells.

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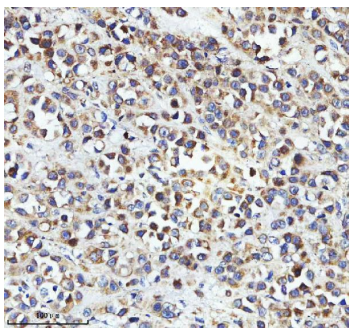
Anti-FAM40B/STRIP2 Antibody Picoband® (A12139) Images



Western blot analysis of FAM40B/STRIP2 using anti-FAM40B/STRIP2 antibody (A12139). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. 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 Hacat whole cell lysates, Lane 3: human A431 whole cell lysates, Lane 4: human SiHa whole cell lysates, Lane 5: rat testis tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-FAM40B/STRIP2 antigen affinity purified polyclonal antibody (Catalog # A12139) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for FAM40B/STRIP2 at approximately 100 kDa. The expected band size for FAM40B/STRIP2 is at 95 kDa.



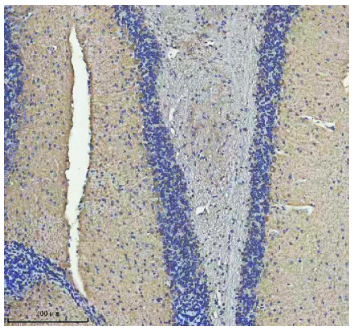
IHC analysis of FAM40B/STRIP2 using anti-FAM40B/STRIP2 antibody (A12139). FAM40B/STRIP2 was detected in a paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-FAM40B/STRIP2 Antibody (A12139) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



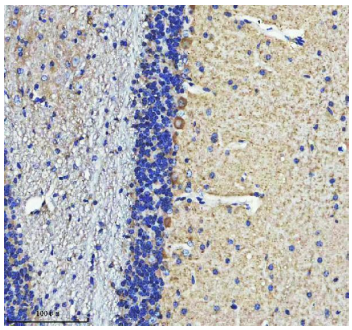
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IHC analysis of FAM40B/STRIP2 using anti-FAM40B/STRIP2 antibody (A12139). FAM40B/STRIP2 was detected in a

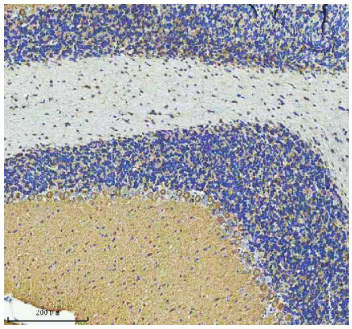
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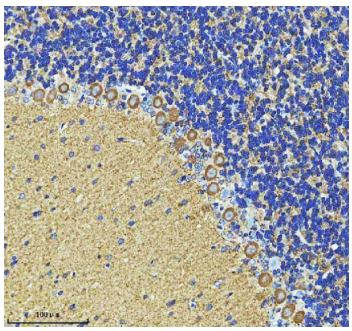
paraffin-embedded section of mouse cerebellum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-FAM40B/STRIP2 Antibody (A12139) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of FAM40B/STRIP2 using anti-FAM40B/STRIP2 antibody (A12139). FAM40B/STRIP2 was detected in a paraffin-embedded section of mouse cerebellum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-FAM40B/STRIP2 Antibody (A12139) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



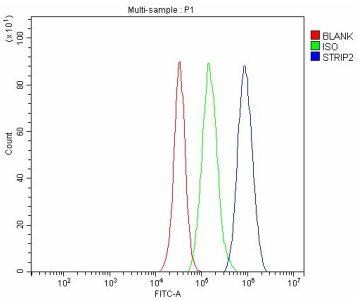
IHC analysis of FAM40B/STRIP2 using anti-FAM40B/STRIP2 antibody (A12139). FAM40B/STRIP2 was detected in a paraffin-embedded section of rat cerebellum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-FAM40B/STRIP2 Antibody (A12139) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of FAM40B/STRIP2 using anti-FAM40B/STRIP2 antibody (A12139). FAM40B/STRIP2 was detected in a paraffin-embedded section of rat cerebellum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-FAM40B/STRIP2 Antibody (A12139) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

Flow Cytometry analysis of U87 cells using anti-FAM40B/STRIP2 antibody (A12139). Overlay histogram showing U87 cells stained with A12139 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization

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buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-FAM40B/STRIP2 Antibody (A12139, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Anti-FAM40B/STRIP2 Antibody

For Research Use Only. Not for use in diagnostic procedures.