

Anti-Uroguanylin/GUCA2B Antibody

Catalog Number: A09489-2

About GUCA2B

Uroguanylin, also named as GUCA2B, is a candidate intestinal natriuretic hormone that controls the sodium and water balance between the intestine and the kidneys. It has been reported that the uroguanylin knockout mouse exhibits elevated blood pressure. Therefore, the GUCA2B gene is thought to be a susceptibility gene for essential hypertension (EH).

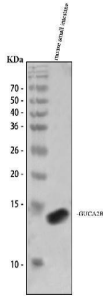
Overview

Product Name	Anti-Uroguanylin/GUCA2B Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Uroguanylin/GUCA2B Antibody catalog # A09489-2. Tested in WB, IHC, ICC, IF, ELISA applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg stabilizing protein and 50% glycerol This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	12 months from date of receipt -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q16661

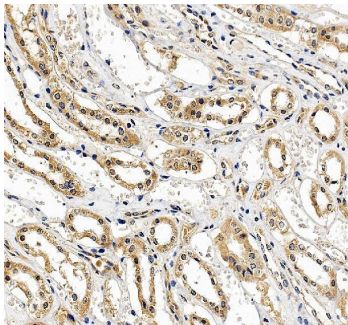
Technical Details

Immunogen	E.coli-derived human Uroguanylin/GUCA2B recombinant protein (Position: S26-G110).
Form	Liquid
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 1:500-2000 Immunohistochemistry, 1:50-400 Immunocytochemistry/Immunofluorescence, 1:50-400 ELISA, 1:100-1000

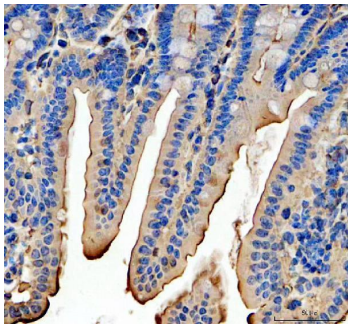
Anti-Uroguanylin/GUCA2B Antibody (A09489-2) Images



Western blot analysis of GUCA2B using anti-GUCA2B antibody (A09489-2). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: mouse small intestine 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-GUCA2B antigen affinity purified polyclonal antibody (A09489-2) at 1:1000 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 ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for GUCA2B at approximately 12-13 kDa. The expected band size for GUCA2B is at 12 kDa.

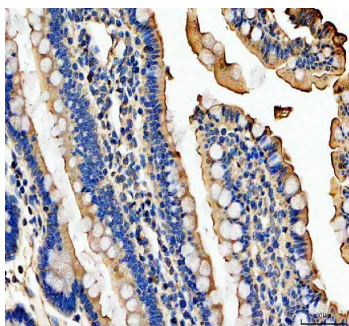


IHC analysis of GUCA2B using anti-GUCA2B antibody (A09489-2). GUCA2B was detected in a paraffin-embedded section of human kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:200 rabbit anti-GUCA2B Antibody (A09489-2) 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.

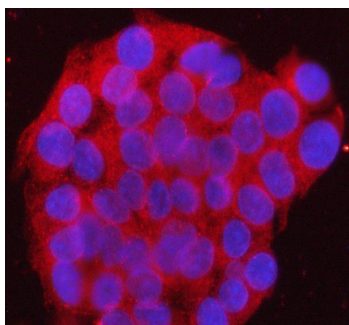


IHC analysis of GUCA2B using anti-GUCA2B antibody (A09489-2). GUCA2B was detected in a paraffin-embedded section of mouse small intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:200 rabbit anti-GUCA2B Antibody (A09489-2) 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 GUCA2B using anti-GUCA2B antibody (A09489-2). GUCA2B was detected in a paraffin-embedded section of rat small intestine 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 1:200 rabbit anti-GUCA2B Antibody (A09489-2) 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.



IF analysis of GUCA2B using anti-GUCA2B antibody (A09489-2). GUCA2B was detected in an immunocytochemical section of HepG2 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 1:100 rabbit anti-GUCA2B Antibody (A09489-2) overnight at 4°C. Fluoro550 Conjugated Goat Anti-Rabbit IgG (BA1144) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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Anti-Uroguanylin/GUCA2B Antibody

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