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

antibody and FLISA

Basic Information		
Product Name	Anti-TRPV5 Antibody	
Gene Name	TRPV5	
Source	Rabbit	
Clonality	Polyclonal	
lsotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	IHC, FCM, WB, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human TRPV5 recombinant protein (Position: Q14-Q74+H636-F729).	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	83 kDa	
Dilution Ratios	Western blot (WB): Immunohistochemistry (IHC): Flow Cytometry (Fixed): Enzyme linked immunosorbent assay (ELISA): (Boiling the paraffin sections in 10mM citrate buffer, mins is required for the staining of formalin/paraffin s determined by end user.	

Storage

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

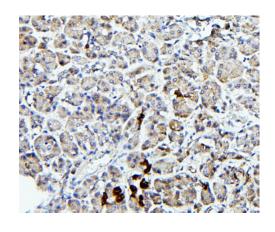
Background Information

Transient receptor potential cation channel subfamily V member 5 is a protein that in humans is encoded by the TRPV5 gene. This gene is a member of the transient receptor family and the TrpV subfamily. The calcium-selective channel encoded by this gene has 6 transmembrane-spanning domains, multiple potential phosphorylation sites, an N-linked glycosylation site, and 5 ANK repeats. And this protein forms homotetramers or heterotetramers and is activated by a low internal calcium level. In addition, TRPV5 is mainly expressed in kidney epithelial cells, where it plays an important role in the reabsorption of Ca2+. Genetic deletion of TRPV5 in mice leads to Ca2+ loss in the urine, and consequential hyperparathyroidism, and bone loss.

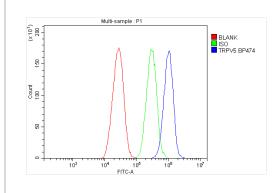
antibody and ELISA experts BOSTER BIOLOGICAL TECHNOLOGY Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

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Selected Validation Data



IHC analysis of TRPV5 using anti-TRPV5 antibody (A03218-1). TRPV5 was detected in a paraffin-embedded section of human pancreatic cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-TRPV5 Antibody (A03218-1) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

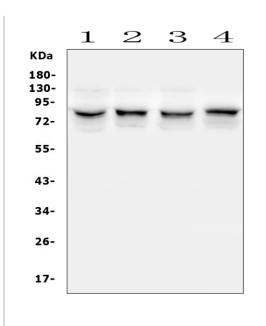


Flow Cytometry analysis of HepG2 cells using anti-TRPV5 antibody (A03218-1).

Overlay histogram showing HepG2 cells stained with A03218-1 (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-TRPV5 Antibody (A03218-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 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.

Product datasheet Anti-TRPV5 Antibody Catalog Number: A03218-1

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Western blot analysis of TRPV5 using anti-TRPV5 antibody (A03218-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: monkey COS-7 whole cell lysates,

Lane 2: human U-87MG whole cell lysates,

Lane 3: human Hela whole cell lysates,

Lane 4: human HepG2 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-TRPV5 antigen affinity purified polyclonal antibody (A03218-1) 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 TRPV5 at approximately 83 kDa. The expected band size for TRPV5 is at 83 kDa.