

Anti-Uroplakin Ib/UPIb Antibody Picoband®

Catalog Number: A10230-1

About UPK1B

Uroplakin 1B, also known as UPK1B, is a protein which in humans is encoded by the UPK1B gene. The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is found in the asymmetrical unit membrane (AUM) where it can form a complex with other transmembrane 4 superfamily proteins. It may play a role in normal bladder epithelial physiology, possibly in regulating membrane permeability of superficial umbrella cells or in stabilizing the apical membrane through AUM/cytoskeletal interactions. The use of alternate polyadenylation sites has been found for this gene.

Overview

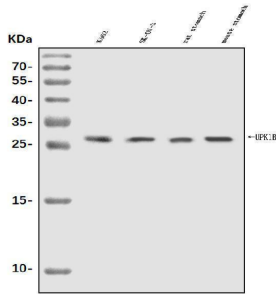
Product Name	Anti-Uroplakin Ib/UPIb Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Uroplakin Ib/UPIb Antibody Picoband® catalog # A10230-1. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium 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, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O75841

Technical Details

Immunogen	E.coli-derived human Uroplakin Ib/UPIb recombinant protein (Position: I107-Q216).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG

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, 0.25-0.5ug/ml, Human, Mouse, Rat ELISA, 0.1-0.5ug/ml, -

Anti-Uroplakin Ib/UIb Antibody Picoband® (A10230-1) Images



Western blot analysis of Uroplakin Ib/UIb using anti-Uroplakin Ib/UIb antibody (A10230-1). 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 30ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: human SK-OV-3 whole cell lysates, Lane 3: rat stomach tissue lysates, Lane 4: mouse stomach tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-Uroplakin Ib/UIb antigen affinity purified polyclonal antibody (Catalog # A10230-1) 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 Uroplakin Ib/UIb at approximately 30KD. The expected band size for Uroplakin Ib/UIb is at 30KD.

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