

Anti-SMAD5 Antibody Picoband®

Catalog Number: PA2115

About SMAD5

Mother against decapentaplegic homolog 5 also known as SMAD5 is a protein that in humans is encoded by the *SAMD5* gene. It belongs to the SMAD family of proteins, which belong to the TGFbeta superfamily of modulators. The gene was assigned to human chromosome 5q31. Like many other TGFbeta family members SMAD5 is involved in cell signalling and modulates signals of bone morphogenetic proteins (BMP's). It may play a role in the pathway where TGFbeta is an inhibitor of hematopoietic progenitor cells.

Overview

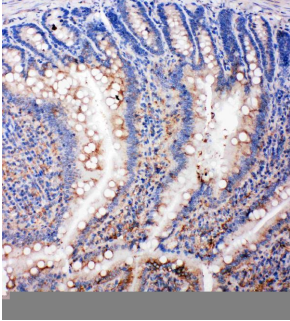
Product Name	Anti-SMAD5 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-SMAD5 Antibody catalog # PA2115. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, 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	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3. *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	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	Q99717

Technical Details

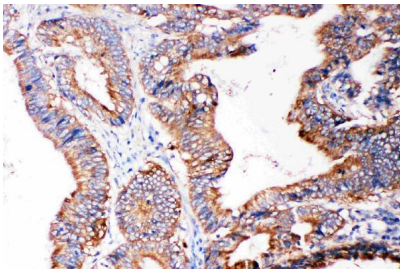
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human SMAD5, identical to the related rat sequence, and different from the related mouse sequence by one amino acid.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

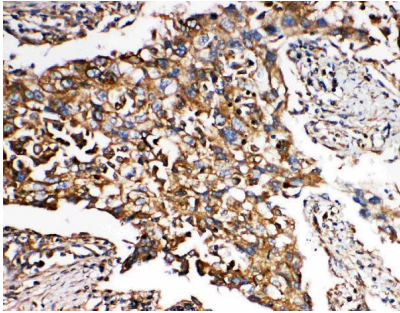
Anti-SMAD5 Antibody Picoband® (PA2115) Images



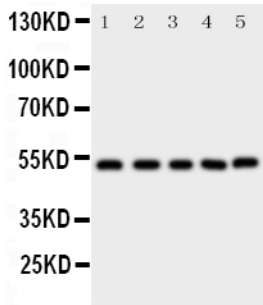
Anti-SMAD5 antibody, PA2115, IHC(P)IHC(P): Rat Intestine Tissue



Anti-SMAD5 antibody, PA2115, IHC(P)IHC(P): Human Intestinal Cancer Tissue



Anti-SMAD5 antibody, PA2115, IHC(P)IHC(P): Human Lung Cancer Tissue



Anti-SMAD5 antibody, PA2115, Western blotting All lanes:
Anti SMAD5 (PA2115) at 0.5ug/ml Lane 1: K562 Whole Cell Lysate at 40ug Lane 2: JURKAT Whole Cell Lysate at 40ug Lane 3: PC 1-2 Whole Cell Lysate at 40ug Lane 4: HELA Whole Cell Lysate at 40ug Lane 5: SMMC Whole Cell Lysate at 40ug Predicted bind size: 52 KD Observed bind size: 52KD

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