

Anti-AACT/SERPINA3 Antibody Picoband®

Catalog Number: PA2217

About SERPINA3

Alpha 1-antichymotrypsin, also called serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3 or GIG24 is an alpha globulin glycoprotein that is a member of the serpin superfamily. In humans, it is encoded by the SERPINA3 gene. This gene is mapped to 14q32.13. The protein encoded by this gene is a plasma protease inhibitor and member of the serine protease inhibitor class. Polymorphisms in this protein appear to be tissue specific and influence protease targeting. Variations in this protein's sequence have been implicated in Alzheimer's disease, and deficiency of this protein has been associated with liver disease. Mutations have been identified in patients with Parkinson disease and chronic obstructive pulmonary disease.

Overview

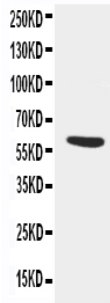
Product Name	Anti-AACT/SERPINA3 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-AACT/SERPINA3 Antibody catalog # PA2217. Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high 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 Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *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	P01011

Technical Details

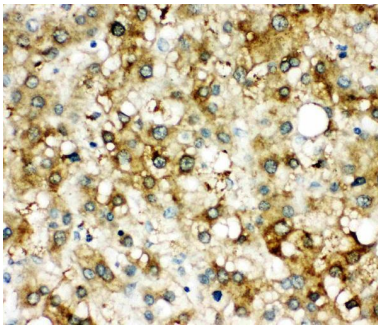
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human alpha 1 Antichymotrypsin.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) 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 Western blot, 0.1-0.5ug/ml, Human

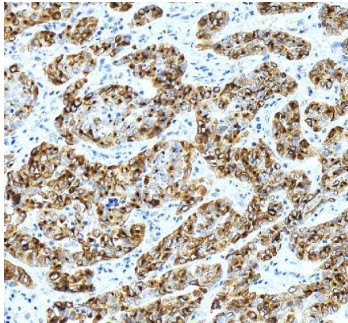
Anti-AACT/SERPINA3 Antibody Picoband® (PA2217) Images



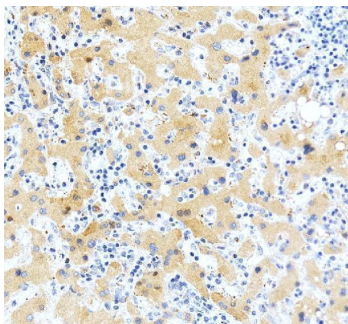
Anti-AACT/SERPINA3 antibody, PA2217, Western blottingWB:
SMMC Cell Lysate



Anti-AACT/SERPINA3 antibody, PA2217, IHC(P)IHC(P): Human
Liver Cancer Tissue



IHC analysis of Alpha Antichymotrypsin/SERPINA3 using anti-
Alpha Antichymotrypsin/SERPINA3 antibody (PA2217). Alpha
Antichymotrypsin/SERPINA3 was detected in a paraffin-
embedded section of human liver 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-Alpha
Antichymotrypsin/SERPINA3 Antibody (PA2217) 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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Anti-AACT/SERPINA3 Antibody

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