BOSTER BIOLOGICAL TECHNOLOGY
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Anti-PFAS Antibody Picoband® (monoclonal, 3D12D8)

Catalog Number: M03795

About PFAS

Purines are necessary for many cellular processes, including DNA replication, transcription, and energy metabolism. Ten enzymatic steps are required to synthesize inosine monophosphate (IMP) in the de novo pathway of purine biosynthesis. The enzyme encoded by this gene catalyzes the fourth step of IMP biosynthesis.

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Overview

Product Name	Anti-PFAS Antibody Picoband® (monoclonal, 3D12D8)
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PFAS Antibody Picoband® (monoclonal, 3D12D8). Tested in ICC/IF, 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	IF, ICC, WB
Clonality	Monoclonal 3D12D8
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage Instructions	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 freezing and thawing.
Host	Mouse
Uniprot ID	O15067

Technical Details

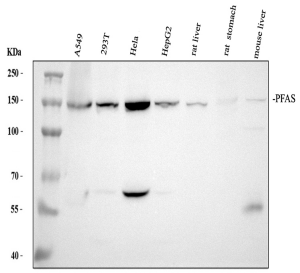
Immunogen	E. coli-derived human PFAS recombinant protein (Position: R330-S569). Human PFAS shares 96.7% amino acid (aa) sequence identity with both mouse and rat PFAS.
Isotype	IgG2b

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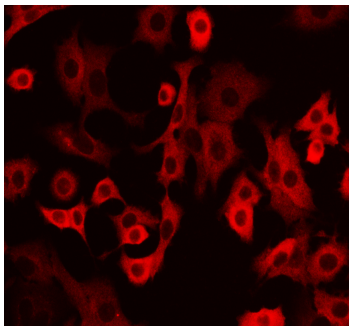
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.
Purification	Protein affinity purified
Suggested Dilutions	Western blot, 0.1-0.5 ug/ml, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human

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Anti-PFAS Antibody Picoband® (monoclonal, 3D12D8) (M03795) Images



Western blot analysis of PFAS using anti-PFAS antibody (M03795). 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: human A549 whole cell lysates, Lane 2: human 293T whole cell lysates, Lane 3: human Hela whole cell lysates, Lane 4: human HepG2 whole cell lysates, Lane 5: rat liver tissue lysates, Lane 6: rat stomach tissue lysates, Lane 7: mouse liver 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 mouse anti-PFAS antigen affinity purified monoclonal antibody (M03795) 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-mouse 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 PFAS at approximately 145 kDa. The expected band size for PFAS is at 145 kDa.



IF analysis of PFAS using anti-PFAS antibody (M03795). PFAS was detected in an immunocytochemical section of A549 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 2 ug/ml mouse anti-PFAS Antibody (M03795) overnight at 4°C. Fluoro594 Conjugated Goat Anti-Mouse IgG (BA1141) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

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