BOSTER BIOLOGICAL TECHNOLOGY
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Anti-PIAS3 Antibody Picoband®

Catalog Number: A02807-1

About PIAS3

E3 SUMO-protein ligase PIAS3 is an enzyme that in humans is encoded by the PIAS3 gene. This gene encodes a member of the PIAS [protein inhibitor of activated STAT (signal transducer and activator of transcription)] family of transcriptional modulators. The protein functions as a SUMO (small ubiquitin-like modifier)-E3 ligase which catalyzes the covalent attachment of a SUMO protein to specific target substrates. It directly binds to several transcription factors and either blocks or enhances their activity. Alternatively spliced transcript variants of this gene have been identified, but the full-length nature of some of these variants has not been determined.

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Overview

Product Name	Anti-PIAS3 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PIAS3 Antibody Picoband® catalog # A02807-1. Tested in 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	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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	Q9Y6X2

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human PIAS3, which shares 97.6% amino acid (aa) sequence identity with both mouse and rat PIAS3.

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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, 0.1-0.5ug/ml

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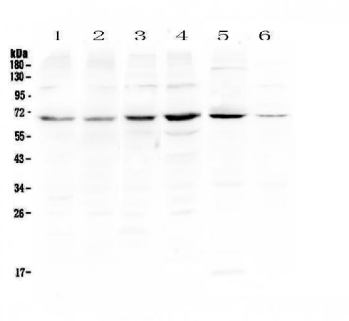
Anti-PIAS3 Antibody Picoband® (A02807-1) Images



Western blot analysis of PIAS3 using anti-PIAS3 antibody (A02807-1). 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 50ug of sample under reducing conditions. Lane 1: human Hela cell lysate,Lane 2: human U-87MG cell lysate,Lane 3: human COLO-320 cell lysate,Lane 4: human HepG2 cell lysate,Lane 5: rat brain tissue lysate,Lane 6: mouse NIH3T3 cell lysate. 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-PIAS3 antigen affinity purified polyclonal antibody (Catalog # A02807-1) 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 1:10000 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 PIAS3 at approximately 68KD. The expected band size for PIAS3 is at 68KD.

Anti-PIAS3 Antibody

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