

Anti-E3 SUMO-protein ligase PIAS1 PIAS1 Antibody Picoband®

Catalog Number: PA2252

About PIAS1

E3 SUMO-protein ligase PIAS1 is an enzyme that in humans is encoded by the PIAS1 gene. It is mapped to 15q23. This gene encodes a member of the mammalian PIAS [protein inhibitor of activated STAT-1 (signal transducer and activator of transcription-1)] family. This member contains a putative zinc-binding motif and a highly acidic region. PIAS1 inhibited STAT1-mediated gene activation in response to interferon when expressed in mammalian cells. It functions in testis as a nuclear receptor transcriptional coregulator and may have a role in AR initiation and maintenance of spermatogenesis. On the other hand, PIAS1 also can function as a SUMO ligase, or possibly as a tightly bound regulator of it, toward p53.

Overview

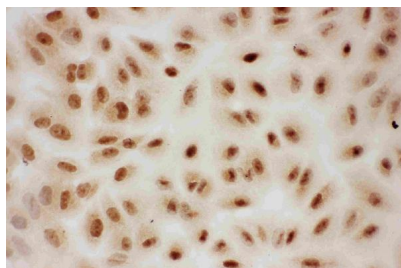
Product Name	Anti-E3 SUMO-protein ligase PIAS1 PIAS1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-E3 SUMO-protein ligase PIAS1 PIAS1 Antibody catalog # PA2252. Tested in IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates 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, ICC, 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	O75925

Technical Details

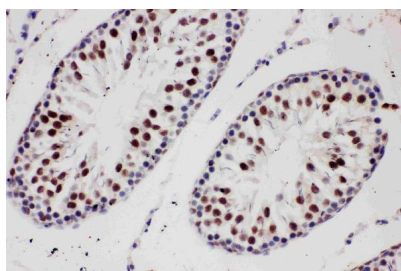
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PIAS1, identical to the related mouse and rat sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
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, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse Immunocytochemistry , 0.5-1ug/ml, Human, Mouse, Rat

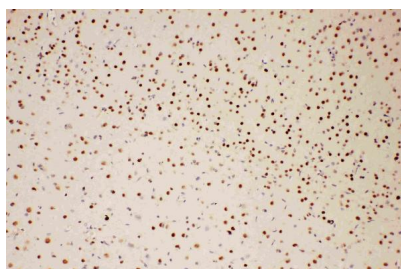
Anti-E3 SUMO-protein ligase PIAS1 PIAS1 Antibody Picoband® (PA2252) Images



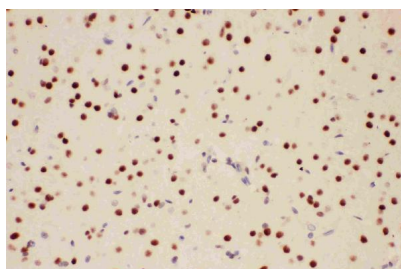
Anti-PIAS1 antibody, PA2252, ICC/ICC: A549 Cell



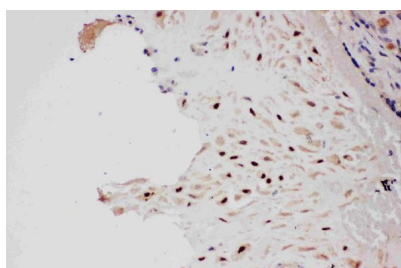
Anti-PIAS1 antibody, PA2252, IHC(P)IHC(P): Rat Testis Tissue



Anti-PIAS1 antibody, PA2252, IHC(P)IHC(P): Rat Brain Tissue

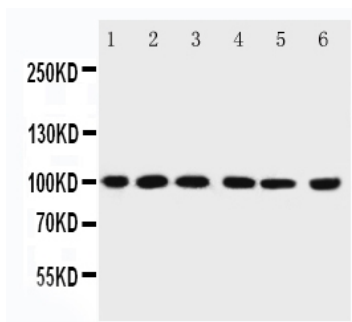


Anti-PIAS1 antibody, PA2252, IHC(P)IHC(P): Rat Brain Tissue



Anti-PIAS1 antibody, PA2252, IHC(P)IHC(P): Human Placenta Tissue

Anti-PIAS1 antibody, PA2252, All Western blotting
All lanes: Anti-PIAS1 (PA2252) at 0.5ug/ml
Lane 1: Rat Testis Tissue Lysate at 40ug
Lane 2: Mouse Testis Tissue Lysate at 40ug
Lane 3: HELA Whole Cell Lysate at 40ug
Lane 4: JURKAT



Whole Cell Lysate at 40ug Lane 5: MCF-7 Whole Cell Lysate at 40ug Lane 6: SKOV Whole Cell Lysate at 40ug Predicted bind size: 72KD Observed bind size: 100KD

1 Publications Citing This Product

1. PubMed ID: 29212953, Scortegagna M1, Berthon A2, Settas N2, Giannakou A2, Garcia G1, Li JL1, James B1, Liddington RC1, Vilches-Moure JG3, Stratakis CA2, Ronai ZA1,4. JCI Insight. 2017 Dec 7;2(23). pii: 97128. doi: 10.1172/jci.insight.97128. [Epub ahead of print] The E...

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