BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-USP25 Antibody Picoband®

**Catalog Number:** A06182-1

## About USP25

Ubiquitin specific peptidase 25 is a protein that in humans is encoded by the USP25 gene. It is mapped to 21q21.1. Ubiquitin is a highly conserved 76-amino acid protein involved in regulation of intracellular protein breakdown, cell cycle regulation, and stress response. Ubiquitin is released from degraded proteins by disassembly of the polyubiquitin chains, which is mediated by ubiquitin-specific proteases (USPs), such as USP25.

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## Overview

| | |
|---|---|
| Product Name | Anti-USP25 Antibody Picoband® |
| Reactive Species | Human, Monkey, Mouse, Rat |
| Description | Boster Bio Anti-USP25 Antibody Picoband® catalog # A06182-1. Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Monkey, 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 | ELISA, Flow Cytometry, IF, ICC, 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 | Q9UHP3 |

## Technical Details

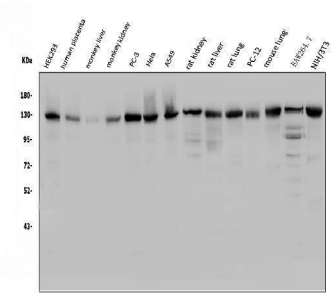
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| Immunogen | E.coli-derived human USP25 recombinant protein (Position: M1-D1053). |
| Recommended Detection Systems | Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC. |

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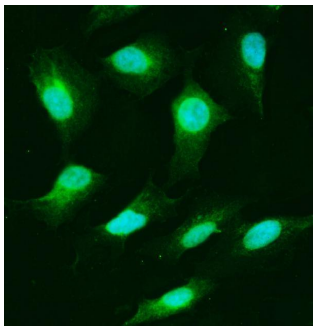
| | |
|---|---|
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Rabbit IgG |
| Form | Lyophilized |
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.1-0.25ug/ml, Human, Mouse, Rat, Monkey<br>Immunocytochemistry/Immunofluorescence, 2ug/ml, Human<br>Flow Cytometry (Fixed), 1-3ug/1x$10^6$ cells, Human<br>ELISA, 0.1-0.5ug/ml, -<br><br>Note: For flow cytometry (FCM), suitable for fixed cells only. Not suitable for FACS or surface flow cytometry using live cells. |

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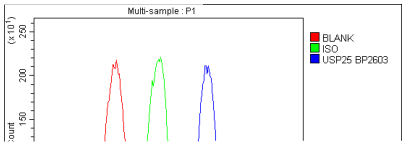
# Anti-USP25 Antibody Picoband® (A06182-1) Images




Western blot analysis of USP25 using anti-USP25 antibody (A06182-1). 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 HEK293 whole cell lysates, Lane 2: human placenta tissue lysates, Lane 3: monkey liver tissue lysates, Lane 4: monkey kidney tissue lysates, Lane 5: human PC-3 whole cell lysates, Lane 6: human Hela whole cell lysates, Lane 7: human A549 whole cell lysates, Lane 8: rat kidney tissue lysates, Lane 9: rat liver tissue lysates, Lane 10: rat lung tissue lysates, Lane 11: human PC-12 whole cell lysates, Lane 12: mouse lung tissue lysates, Lane 13: mouse RAW264.7 whole cell lysates, Lane 14: mouse NIH-3T3 whole cell lysates, 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-USP25 antigen affinity purified polyclonal antibody (Catalog # A06182-1) at 0.25 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 1:5000 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 USP25 at approximately 125KD. The expected band size for USP25 is at 125KD.



IF analysis of USP25 using anti-USP25 antibody (A06182-1). USP25 was detected in 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 2ug/mL rabbit anti-USP25 Antibody (A06182-1) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.




Flow Cytometry analysis of HL-60 cells using anti-USP25 antibody (A06182-1). Overlay histogram showing HL-60 cells stained with A06182-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-USP25 Antibody (A06182-1, 1ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with

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primary antibody and secondary antibody (Red line) was used as a blank control.

## Anti-USP25 Antibody

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