BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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# Anti-PUF60 Antibody Picoband®

**Catalog Number:** A05744-2

## About PUF60

This gene encodes a nucleic acid-binding protein that plays a role in a variety of nuclear processes, including pre-mRNA splicing and transcriptional regulation. The encoded protein forms a complex with the far upstream DNA element (FUSE) and FUSE-binding protein at the myelocytomatosis oncogene (MYC) promoter. This complex represses MYC transcription through the core-TFIIH basal transcription factor. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.

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## Overview

| | |
|---|---|
| Product Name | Anti-PUF60 Antibody Picoband® |
| Reactive Species | Human, Mouse |
| Description | Boster Bio Anti-PUF60 Antibody Picoband® catalog # A05744-2. Tested in WB, IHC, IP, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse. 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, IP, IHC, WB |
| Clonality | Polyclonal |
| Formulation | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 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 | Rabbit |
| Uniprot ID | Q9UHX1 |

## Technical Details

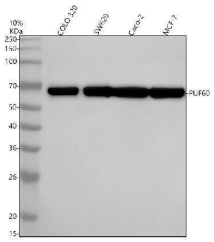
| | |
|---|---|
| Immunogen | E.coli-derived human PUF60 recombinant protein (Position: Q48-A559). Human PUF60 shares 98.8% amino acid (aa) sequence identity with both mouse and rat PUF60. |
| Form | Lyophilized |

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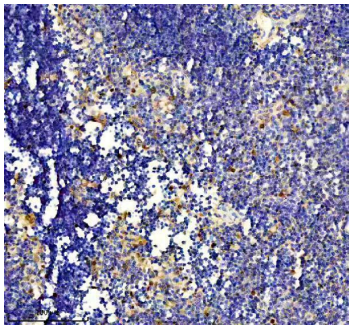
| | |
|---|---|
| Concentration | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. |
| Purification | Immunogen affinity purified. |
| Suggested Dilutions | Western blot, 0.25-0.5 ug/ml, Human<br>Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human, Mouse<br>Immunoprecipitation, 0.5-2 ug/ml, Human<br>Flow Cytometry (Fixed), 1-3 ug/1x$10^6$ cells, Human<br>ELISA, 0.1-0.5 ug/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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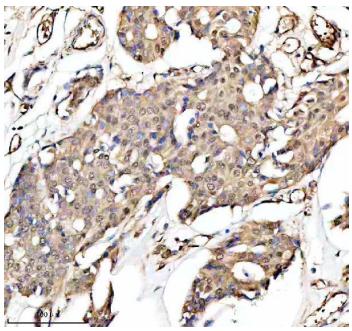
# Anti-PUF60 Antibody Picoband® (A05744-2) Images




Western blot analysis of PUF60 using anti-PUF60 antibody (A05744-2). 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 COLO-320 whole cell lysates, Lane 2: human SW620 whole cell lysates, Lane 3: human Caco-2 whole cell lysates, Lane 4: human MCF-7 whole cell 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 rabbit anti-PUF60 antigen affinity purified polyclonal antibody (A05744-2) 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 1:5000 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 PUF60 at approximately 60 kDa. The expected band size for PUF60 is at 60 kDa.



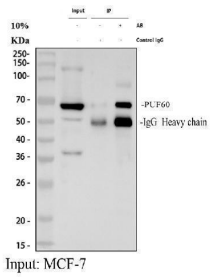
IHC analysis of PUF60 using anti-PUF60 antibody (A05744-2). PUF60 was detected in a paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-PUF60 Antibody (A05744-2) 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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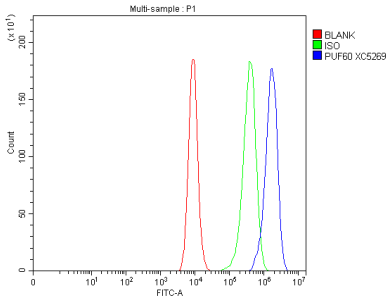
Immunoprecipitating (IP) PUF60 in MCF-7 whole cell lysate. Western blot analysis of PUF60 using anti-PUF60 antibody (A05744-2); Lane 1: MCF-7 whole cell lysates (30ug); Lane 2:

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Input: MCF-7

Rabbit control IgG instead of anti-PUF60 antibody in MCF-7 whole cell lysate; Lane 3: anti-PUF60 antibody (2ug) + MCF-7 whole cell lysate (500ug). After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-PUF60 antigen affinity purified polyclonal antibody (A05744-2) at a dilution of 0.5 ug/mL and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1196-200). A specific band was detected for PUF60 at approximately 60 kDa. The expected band size for PUF60 is at 60 kDa.




Flow Cytometry analysis of Caco-2 cells using anti-PUF60 antibody (A05744-2). Overlay histogram showing Caco-2 cells stained with A05744-2 (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-PUF60 Antibody (A05744-2, 1 ug/1x106 cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

## Anti-PUF60 Antibody

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