

## Anti-Hjurp Antibody Picoband®

Catalog Number: A03856-1

### About Hjurp

Holliday junction recognition protein is a protein in humans that is encoded by the HJURP gene. HJURP (holliday junction recognition protein) is a protein coding gene. Diseases associated with HJURP include fibrillary astrocytoma. Among its related pathways are DNA damage and chromosome maintenance. Centromeric protein that plays a central role in the incorporation and maintenance of histone H3-like variant CENPA at centromeres. Acts as a specific chaperone for CENPA and is required for the incorporation of newly synthesized CENPA molecules into nucleosomes at replicated centromeres. Prevents CENPA-H4 tetramerization and prevents premature DNA binding by the CENPA-H4 tetramer. Directly binds holliday junctions.

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## Overview

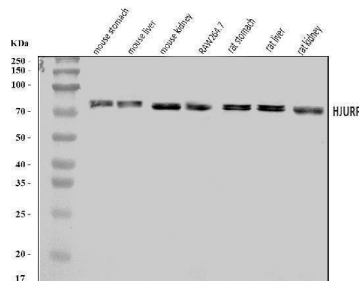
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-Hjurp Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                          |
| Reactive Species     | Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Description          | Boster Bio Anti-Hjurp Antibody Picoband® catalog # A03856-1. Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with 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, WB                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clonality            | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                                                                                              |
| 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           | Q6PG16                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Technical Details

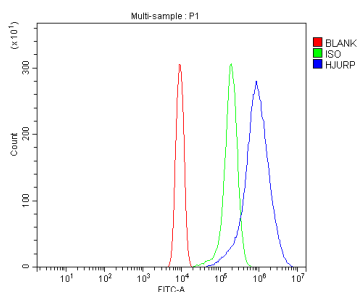
|           |                                                                      |
|-----------|----------------------------------------------------------------------|
| Immunogen | E.coli-derived mouse Hjurp recombinant protein (Position: Q13-T574). |
|-----------|----------------------------------------------------------------------|

|                               |                                                                                                                                                                                                                                                                                        |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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           | <p>Western blot, 0.25-0.5 ug/ml, Mouse, Rat<br/>Flow Cytometry (Fixed), 1-3 ug/1x10<sup>6</sup> cells, Mouse<br/>ELISA, 0.1-0.5 ug/ml, -</p> <p>Note: For flow cytometry (FCM), validated for fixed cells only. Not validated for FACS or surface flow cytometry using live cells.</p> |

## Anti-Hjrp Antibody Picoband® (A03856-1) Images



Western blot analysis of Hjrp using anti-Hjrp antibody (A03856-1). 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 30 ug of sample under reducing conditions. Lane 1: mouse stomach tissue lysates, Lane 2: mouse liver tissue lysates, Lane 3: mouse kidney tissue lysates, Lane 4: mouse RAW264.7 whole cell lysates, Lane 5: rat stomach tissue lysates, Lane 6: rat liver tissue lysates, Lane 7: rat kidney 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 rabbit anti-Hjrp antigen affinity purified polyclonal antibody (Catalog # A03856-1) 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 1:5000 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 Hjrp at approximately 84 kDa. The expected band size for Hjrp is at 84 kDa.



Flow Cytometry analysis of ANA-1 cells using anti-Hjrp antibody (A03856-1). Overlay histogram showing ANA-1 cells stained with A03856-1 (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-Hjrp Antibody (A03856-1, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

### Anti-Hjrp Antibody

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