

## Anti-UHRF1 Antibody Picoband®

Catalog Number: A01156-1

### About UHRF1

Ubiquitin-like, containing PHD and RING finger domains, 1 is a protein which in humans is encoded by the UHRF1 gene. This gene encodes a member of a subfamily of RING-finger type E3 ubiquitin ligases. The protein binds to specific DNA sequences, and recruits a histone deacetylase to regulate gene expression. Its expression peaks at late G1 phase and continues during G2 and M phases of the cell cycle. It plays a major role in the G1/S transition by regulating topoisomerase IIalpha and retinoblastoma gene expression, and functions in the p53-dependent DNA damage checkpoint. It is regarded as a hub protein for the integration of epigenetic information. This gene is up-regulated in various cancers, and it is therefore considered to be a therapeutic target. Multiple transcript variants encoding different isoforms have been found for this gene. A related pseudogene exists on chromosome 12.

### Overview

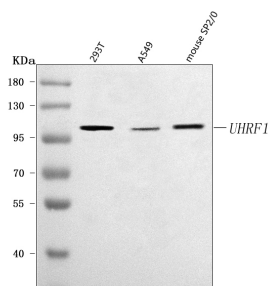
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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-UHRF1 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Reactive Species     | Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Description          | Boster Bio Anti-UHRF1 Antibody Picoband® catalog # A01156-1. Tested in ELISA, Flow Cytometry, IF, ICC, WB 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, IF, ICC, 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           | Q96T88                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### Technical Details

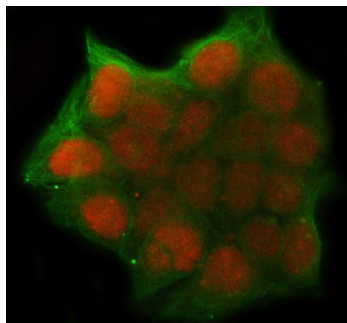
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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen                     | E.coli-derived human UHRF1 recombinant protein (Position: K592-R793).                                                                                                         |
| 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 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 µg/ml.                                                                                                                        |
| Purification        | Immunogen affinity purified.                                                                                                                                                                     |
| Suggested Dilutions | Western blot, 0.25-0.5 ug/ml, Human, Mouse<br>Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human<br>Flow Cytometry (Fixed), 1-3 ug/1x10 <sup>6</sup> cells, Human<br>ELISA, 0.1-0.5 ug/ml, - |

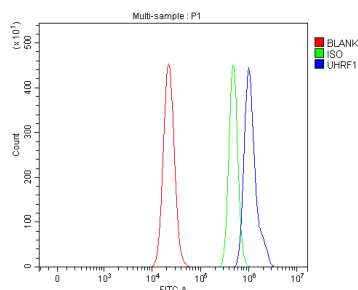
## Anti-UHRF1 Antibody Picoband® (A01156-1) Images



Western blot analysis of UHRF1 using anti-UHRF1 antibody (A01156-1). 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: human 293T whole cell lysates, Lane 2: human A549 whole cell lysates, Lane 3: mouse SP2/0 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-UHRF1 antigen affinity purified polyclonal antibody (Catalog # A01156-1) 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 UHRF1 at approximately 100 kDa. The expected band size for UHRF1 is at 90 kDa.



IF analysis of UHRF1 using anti-UHRF1 antibody (A01156-1) and anti-Tubulin Alpha antibody (M03989-3). UHRF1 was detected in immunocytochemical section of MCF-7 cell. 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 5 ug/mL rabbit anti-UHRF1 Antibody (A01156-1) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight®488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of RT4 cells using anti-UHRF1 antibody (A01156-1). Overlay histogram showing RT4 cells stained with A01156-1 (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-UHRF1 Antibody (A01156-1, 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.

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## Anti-UHRF1 Antibody

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