# Anti-HMGB1 Antibody (Clone#AAC-8)

**Catalog Number: *BM3965***

BOSTER®
antibody and ELISA experts
**BOSTER BIOLOGICAL TECHNOLOGY**
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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## Basic Information

| | |
|---|---|
| **Product Name** | Anti-HMGB1 Antibody (Clone#AAC-8) |
| **Gene Name** | HMGB1 |
| **Source** | Rabbit |
| **Clonality** | Monoclonal |
| **Isotype** | IgG |
| **Species Reactivity** | human, mouse, rat |
| **Tested Application** | WB, IHC, ICC/IF |
| **Contents** | 500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol. |
| **Immunogen** | A synthesized peptide derived from human HMGB1 |
| **Concentration** | 500 ug/ml |
| **Purification** | Affinity-chromatography |
| **Observed MW** | 25 kDa |
| **Dilution Ratios** | Western blot (WB): 1:500-2000<br>Immunohistochemistry (IHC): 1:50-200<br>Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200<br>Flow Cytometry (FCM): 1:30 |

## Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

## Background Information

High mobility group box 1 protein, also known as high-mobility group protein 1 (HMG-1) and amphoterin, is a protein that in humans is encoded by the HMGB1 gene. This gene encodes a protein that belongs to the High Mobility Group-box superfamily. The encoded non-histone, nuclear DNA-binding protein regulates transcription, and is involved in organization of DNA. This protein plays a role in several cellular processes, including inflammation, cell differentiation and tumor cell migration. Multiple pseudogenes of this gene have been identified. Alternative splicing results in multiple transcript variants that encode the same protein.

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## Reference

Anti-HMGB1 Antibody (Clone#AAC-8)被引用在13文献中。

## Selected Validation Data

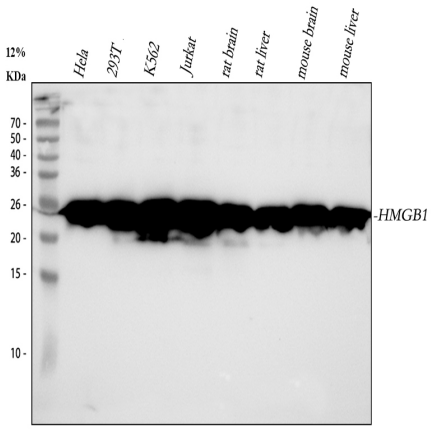


Figure 1. Western blot analysis of anti-HMGB1 antibody (BM3965). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human 293T whole cell lysates,
Lane 3: human K562 whole cell lysates,
Lane 4: human Jurkat whole cell lysates,
Lane 5: rat brain tissue lysates,
Lane 6: rat liver tissue lysates,
Lane 7: mouse brain tissue lysates,
Lane 8: mouse liver tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-HMGB1 antigen affinity purified monoclonal antibody (BM3965) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for HMGB1 at approximately 25 kDa. The expected band size for HMGB1 is at 25 kDa.

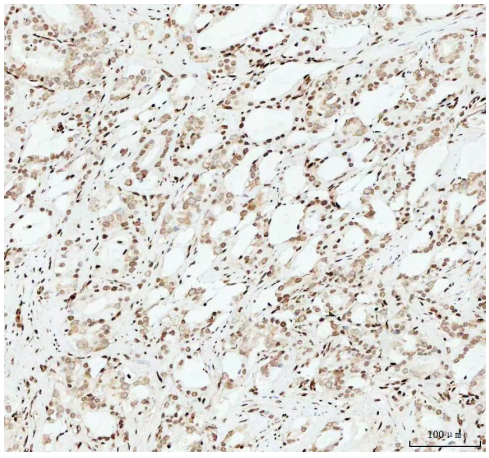

Figure 2. IHC analysis of HMGB1 using anti-HMGB1 antibody (BM3965) .
HMGB1 was detected in a paraffin-embedded section of human prostatic acinar adenocarcinoma tissue. The tissue section was incubated with rabbit anti-HMGB1 Antibody (BM3965) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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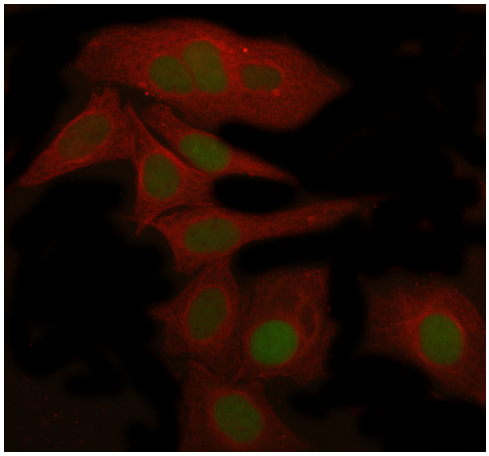

Figure 7. IF analysis of HMGB1 using anti-HMGB1 antibody (BM3965) and anti-Beta Tubulin antibody (M01857-3). HMGB1 was detected in an immunocytochemical section of Hela cells. The section was incubated with rabbit anti-HMGB1 Antibody (BM3965) at a dilution of 1:100. Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) and Cy3-conjugated Anti-mouse IgG Secondary Antibody (red)(Catalog#BA1031) were used as secondary antibody.