bs-20633R **[Primary Antibody]**

HMGB1 Rabbit pAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Polyclonal
GeneID: 100862258
Target: HMGB1
Immunogen: KLH conjugated synthetic peptide derived from mouse HMGB1: 61-150/215.
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background: High Mobility Group Box-1 (HMGB1) is a cytokine implicated in the pathogenesis of rheumatoid arthritis (RA) and other inflammatory diseases. The cholinergic anti-inflammatory pathway, a vagus nerve dependent mechanism, inhibits HMGB1 release in experimental disease models

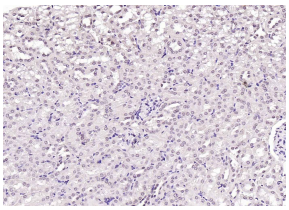
Applications:
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1µg/Test)
ICC/IF (1:100-500)

Reactivity: Human, Mouse, Rat (predicted: Pig, Cow, Dog, Horse)

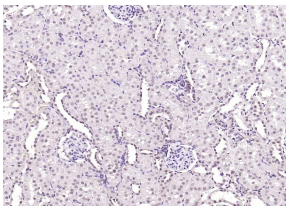
Predicted MW.: 25 kDa

Subcellular Location: Nucleus

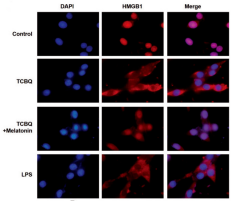
VALIDATION IMAGES



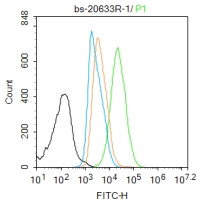
Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (HMGB1) Polyclonal Antibody, Unconjugated (bs-20633R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (HMGB1) Polyclonal Antibody, Unconjugated (bs-20633R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



This image was generously provided by Juanli Fu, at Southwest University in Chong Qing, China. 4% Paraformaldehyde fixed PC12 cells stained with Rabbit Anti- HMGB1 Polyclonal Antibody (bs-20633R) at 1:300 for 3 hours at 4°C, followed by Rhodamine-conjugated secondary antibody for an additional hour.



Blank control:HL-60. Primary Antibody (green line): Rabbit Anti-HMGB1 antibody (bs-20633R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein

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interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=27.4]** Yaqian Du. et al. A Vacancy‐Engineering Ferroelectric Nanomedicine for Cuproptosis/Apoptosis Co‐Activated Immunotherapy. ADV MATER. 2024 May IF ;Mouse. 38703184
- **[IF=16]** Hui Wen. et al. A Cyclic Photosensitizer Nanoplatform for Effective Pyroptosis and Enhanced Photoimmunotherapy. ACS NANO. 2025 Sep IF ;Mouse. 41014628
- **[IF=14.1]** Meng Yang. et al. Nanofabricated Bacterial Cell Walls with Intrinsic Peroxidase-Mimicking and Sonodynamic Activities for Cancer Combination Treatment. ADV SCI. 2025 May;:2505310 IF ;Mouse. 40365750
- **[IF=13.3]** Yongjian Zhang. et al. T lymphocyte membrane bionic nanomedicine synergizes with radiotherapy for enhancing Mg2+-mediated tumor metallo-immunotherapy and preventing recurrence. THERANOSTICS. 2026 Jan;16(7):3634 IF ;Mouse. 41608570
- **[IF=13.3]** Bingchun Zeng. et al. An organolutetium nanosensitizer synergizes with PARP inhibition to unleash STING-mediated immunity for low-dose radioimmunotherapy. THERANOSTICS. 2026 Jan;16(4):1720 IF ;Mouse. 41356181

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