

Anti-High-Mobility Group Protein 1 (HMGB1) Antibody

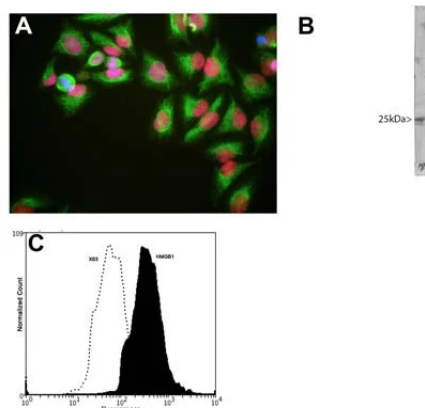


Product Details

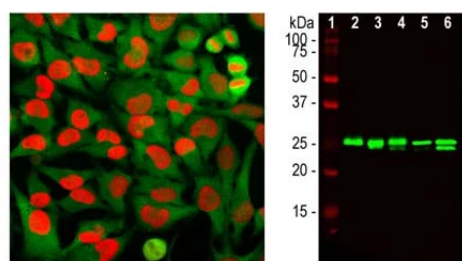
Available Variants	100 µg (SKU:M-1702-100)
Conjugate	Unconjugated
Isotype	IgG2b
Clone	1F3
Host Species	Mouse
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Production Notes	Protein G purified
Applications	Flow, ICC, WB
Dilution Ranges	WB: 1:1000-1:2000 ICC: 1:500-1:1000
Species Reactivity	Bovine, Human, Mouse, Pig, Rat
Immunogen	Human full length recombinant human HMGB1 protein expressed in and purified from E. coli.
Specificity	The antibody reacts with a band at ~25 kDa by Western blot on HeLa cell extract. It has also been used successfully for immunocytochemistry showing strong nuclear staining.
Molecular Weight	25 kDa
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any insoluble material. After reconstitution of lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles.

UniProt ID	P09429
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.

Product Images



A: HeLa cells stained with M-1702-100 (red), chicken polyclonal antibody to Vimentin (C-1409-50, green) and DNA (blue). The M-1702-100 antibody reveals strong nuclear staining which overlaps with the DNA stain. B: Blot of crude HeLa cell extract stained with M-1702-100. HMGB1 runs at an apparent molecular weight of 25 kDa. C: Analysis of HMGB1 expression in human euroblastoma SH-SY5Y cell line by Flow Cytometry. Fixing and Permeabilization of cells: Absolute methanol (10 minutes in ice) and 0.1% Tween-20 in PBS, Blocking: 1% BSA, Primary antibody: Mouse Monoclonal antibody to HMGB1 (cat # M-1702-100, 2µg per $\sim 10^6$ cells) for 30 minutes at room temperature, Secondary antibody: Goat anti-mouse PE labeled secondary antibody (1:100 fold dilution) with incubation for 20 minutes in dark at room temperature. Non-specific Control IgG, clone X63 (cat # M-1249-200) was used as negative control under same conditions (black dashed). Flow cytometry data and results were generated using Orflo MoxiflowTM instrument and protocols.



Left: HMGB1 detection in HeLa cells by **Immunocytochemistry**. Cells were stained with mouse antibody to HMGB1 (red, 1:2,000), and co-stained with rabbit antibody to GAPDH (R-1701-100, green, 1:2,000). The HMGB1 antibody stains the chromatin binding protein HMGB1, which is localized in the nuclei. In contrast, the GAPDH antibody produces strong cytoplasmic staining.

Right: Western blot analysis of HMGB1 expression (green) in cell lysates, using mouse antibody to HMGB1 at 1:2,000 dilution. [1] protein standard, [2] NIH-3T3, [3] C6, [4] HEK293, [5] HeLa, and [6] SH-SY5Y. The 25 kDa band corresponds to HMGB1 protein.



Created on 12. September 2026 | All information without guarantee