

Anti-HMGA1 Antibody [JE58-17]

HA722280



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, FC
Molecular Wt:	Predicted band size: 12 kDa
Clone number:	JE58-17

Description: High-mobility group protein HMG-I/HMG-Y is a protein that in humans is encoded by the HMGA1 gene. This gene encodes a non-histone chromatin protein involved in many cellular processes, including regulation of inducible gene transcription, DNA replication, heterochromatin organization, integration of retroviruses into chromosomes, and the metastatic progression of cancer cells. HMGA1 proteins are quite small (~10-12 kDa) and basic molecules, and consist of three AT-hooks with the RGRP (Arg-Gly-Arg-Pro) core motif, a novel cross-linking domain located between the second and third AT-hook, and a C-terminal acidic tail characteristic for the HMG family comprising HMGA, HMGB and HMGN proteins.

Immunogen: Recombinant protein within Human HMGA1 aa 1-80 / 107.

Positive control: A431 cell lysate, HCT 116 cell lysate, HepG2 cell lysate, MDA-MB-231 cell lysate, HCT 116.

Subcellular location: Nucleus, Chromosome.

Database links: SwissProt: P17096 Human

Recommended Dilutions:

WB	1:1,000
IF-Cell	1:200
FC	1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

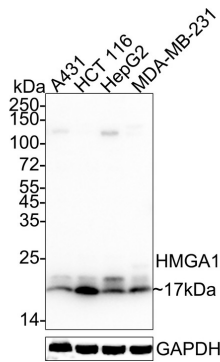
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Images

Fig1: Western blot analysis of HMGA1 on different lysates with Rabbit anti-HMGA1 antibody (HA722280) at 1/1,000 dilution.

Lane 1: A431 cell lysate
Lane 2: HCT 116 cell lysate
Lane 3: HepG2 cell lysate
Lane 4: MDA-MB-231 cell lysate



Lysates/proteins at 20 µg/Lane.

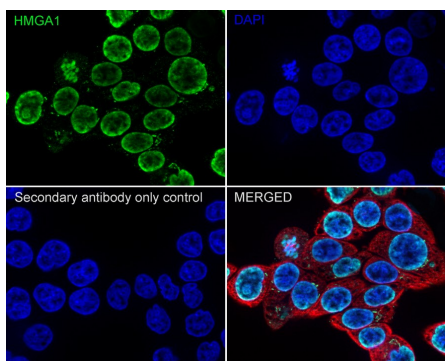
Predicted band size: 12 kDa
Observed band size: 17 kDa

Exposure time: 1 minute 18 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA722280) at 1/1,000 dilution was used in 5% NFDN/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Immunocytochemistry analysis of HCT 116 cells labeling HMGA1 with Rabbit anti-HMGA1 antibody (HA722280) at 1/200 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-HMGA1 antibody (HA722280) at 1/200 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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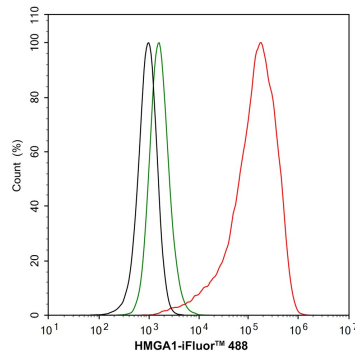


Fig3: Flow cytometric analysis of HCT 116 cells labeling HMGA1.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA722280, 1/1,000) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4 °C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Wang Y. et. al. HMGA1 in cancer: Cancer classification by location. J Cell Mol Med. 2019 Apr
2. Resar L. et. al. Lessons from the Crypt: HMGA1-Amping up Wnt for Stem Cells and Tumor Progression. Cancer Res. 2018 Apr

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