[KO Validated] HMGB1 Monoclonal Antibody

CAB19529

Description

This [KO Validated] HMGB1 Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Product Information

SKU:	CAB19529
Contents:	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
Category:	Monoclonal Antibody
Synonyms:	HMG1, HMG3, HMG-1, SBP-1, B1
Clone:	ARC0001
Applications:	WB IHC-P IF/ICC ELISA
Conjugation:	Unconjugated
Reactivity:	Human, Mouse, Rat

Antibody Data

Gene ID:	3146
Uniprot:	AB_2862649
Host Species:	Rabbit
Purification:	Affinity purification
Observed MW:	30kDa
Calculated MW:	25kDa

Preparation & Storage

Storage: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Store Bradford Reagent at Room Temperature for 1 Year.

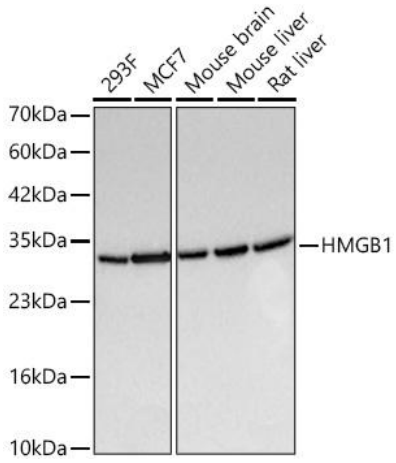
Positive Sample: 293F, HeLa, MCF7, Mouse brain, Mouse liver, Rat liver

Recommended Dilutions:

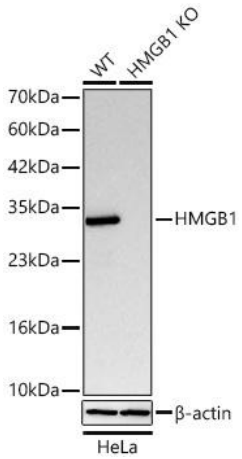
WB	1:6000 - 1:60000
IHC-P	1:10000 - 1:40000
IF/ICC	1:400 - 1:1000
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol

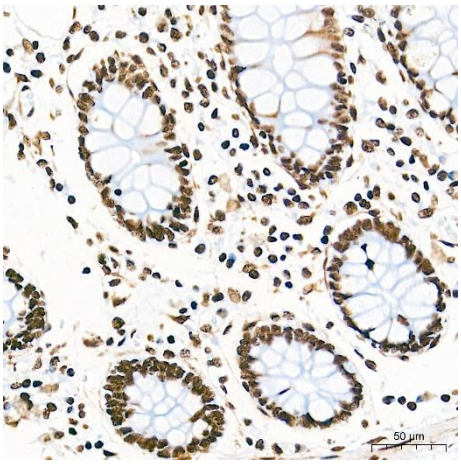
Validation Data



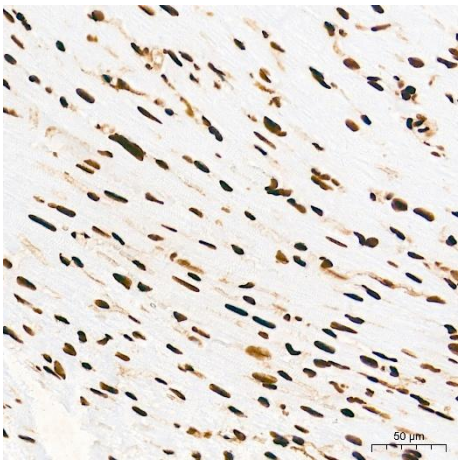
Western blot analysis of various lysates using [KO Validated] HMGB1 Rabbit mAb (CAB19529) at 1:6000 dilution incubated overnight at 4°C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 0.5s.



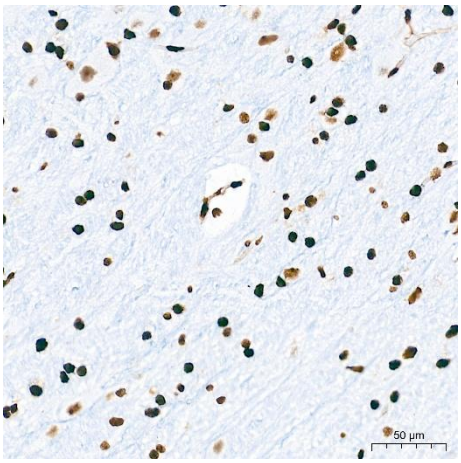
Western blot analysis of lysates from wild type (WT) and HMGB1 knockout (KO) HeLa cells using [KO Validated] HMGB1 Rabbit mAb (CAB19529) at 1:6000 dilution incubated overnight at 4℃. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 0.5s.



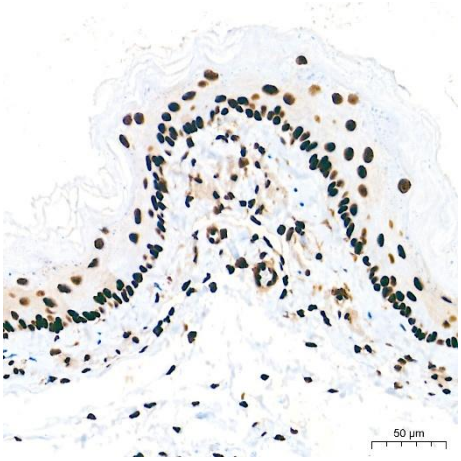
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using [KO Validated] HMGB1 Rabbit mAb (CAB19529) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



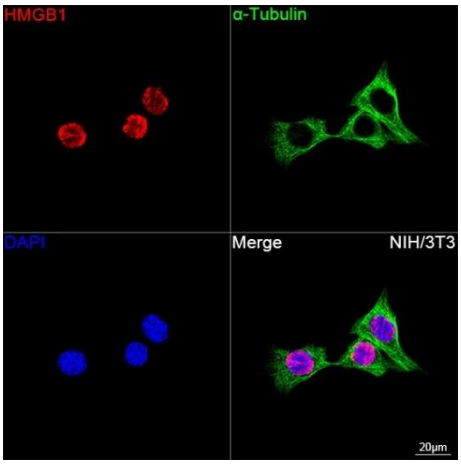
Immunohistochemistry analysis of paraffin-embedded Mouse heart tissue using [KO Validated] HMGB1 Rabbit mAb (CAB19529) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



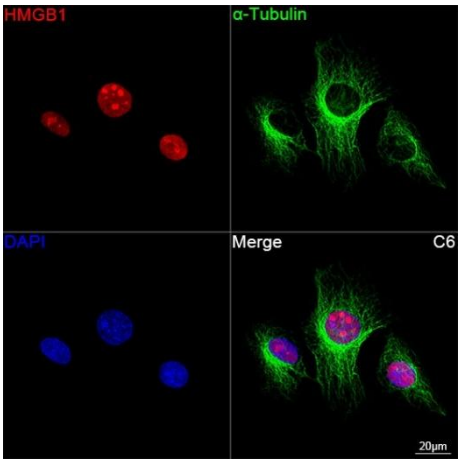
Immunohistochemistry analysis of paraffin-embedded Rat brain tissue using [KO Validated] HMGB1 Rabbit mAb (CAB19529) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat esophagus tissue using [KO Validated] HMGB1 Rabbit mAb (CAB19529) at a dilution of 1:20000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Confocal imaging of NIH/3T3 cells using [KO Validated] HMGB1 Rabbit mAb (CAB19529, dilution 1:1000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



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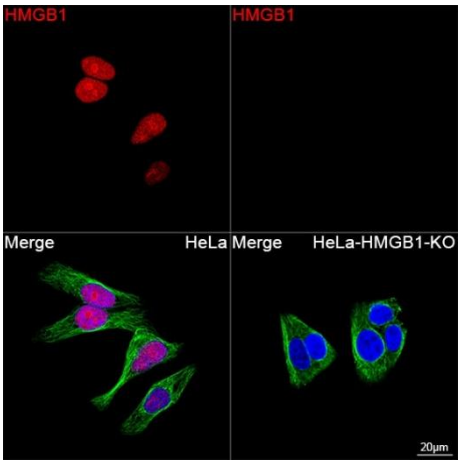

Confocal imaging of HeLa cells and HMGB1 knockout(KO) HeLa cells using [KO Validated] HMGB1 Rabbit mAb (CAB19529, dilution 1:1000) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (CABC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.