

HMGB2 Rabbit mAb

Catalog No.: A9168 Recombinant 2 Publications

Basic Information

Observed MW

24 kDa

Calculated MW

24 kDa

Category

Primary antibody

Applications

WB, IHC-P, IF/ICC, IP, ELISA, ChIP, CUT&Tag

Cross-Reactivity

Human, Mouse, Rat

Clone/No. number

ARC1460

Background

This gene encodes a member of the non-histone chromosomal high mobility group protein family. The proteins of this family are chromatin-associated and ubiquitously distributed in the nucleus of higher eukaryotic cells. In vitro studies have demonstrated that this protein is able to efficiently bend DNA and form DNA circles. These studies suggest a role in facilitating cooperative interactions between cis-acting proteins by promoting DNA flexibility. This protein was also reported to be involved in the final ligation step in DNA end-joining processes of DNA double-strand breaks repair and V(D)J recombination.

Recommended Dilutions

WB 1:1000 - 1:6000

IHC-P 1:200 - 1:2000

IF/ICC 1:100 - 1:1000

IP 0.5µg-4µg antibody for 200µg-400µg extracts of whole cells

ELISA Recommended starting concentration is 1 µg/mL.
Please optimize the concentration based on your specific assay requirements.

ChIP 5µg antibody for 10µg-15µg of Chromatin

CUT&Tag 10⁵ cells /1 µg

Immunogen Information

Gene ID

3148

Swiss Prot

P26583

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

HMG2; HMGB2

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

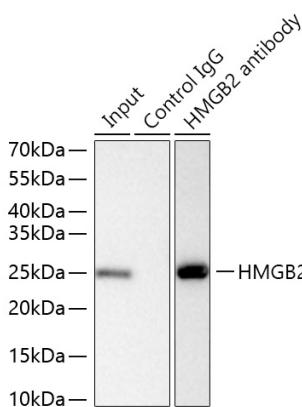
Store at -20°C. Avoid freeze / thaw cycles.

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.

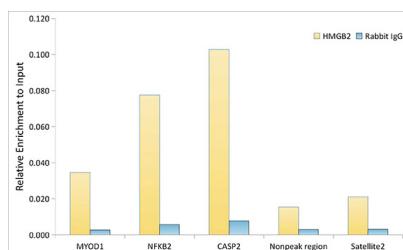
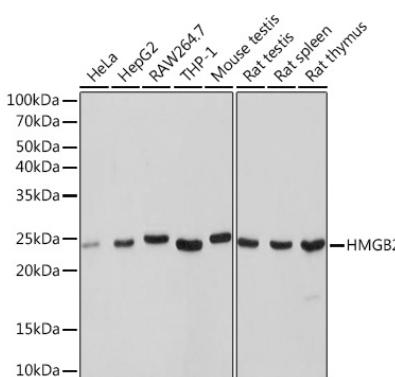
Contact

-  | 400-999-6126
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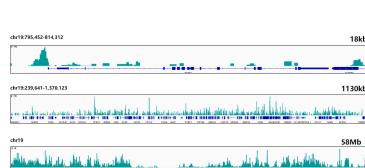
Validation Data



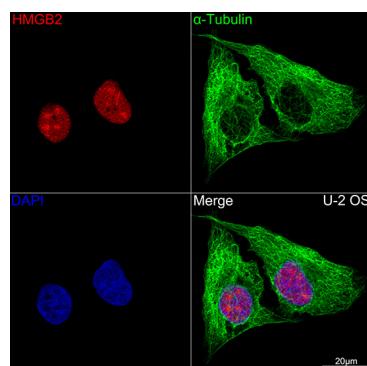
Immunoprecipitation of HMGB2 from 400 µg extracts of THP-1 cells was performed using 2 µg of HMGB2 Rabbit mAb (A9168). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using HMGB2 Rabbit mAb (A9168) at a dilution of 1:1000.



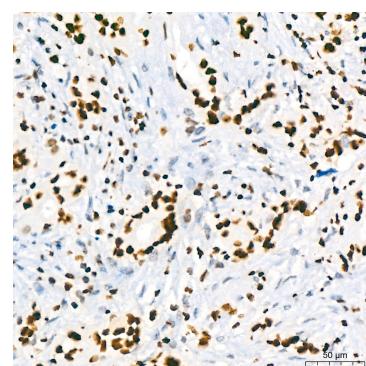
Chromatin immunoprecipitation analysis of extracts from HepG2 cells, using HMGB2 Rabbit mAb (A9168) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



CUT&Tag was performed using the CUT&Tag Assay Kit (pAG-Tn5) for Illumina(RK20265)



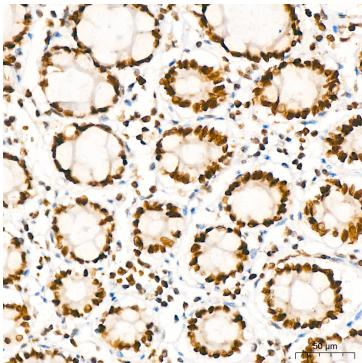
Confocal imaging of U-2 OS cells using HMGB2 Rabbit mAb (A9168, dilution



Immunohistochemistry analysis of paraffin-embedded Human breast cancer using

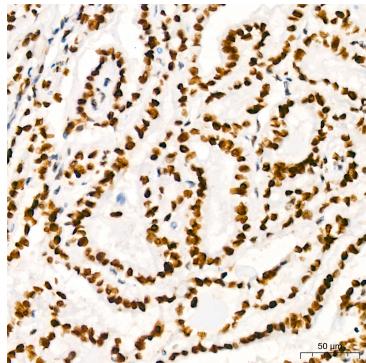
Validation Data

from 10^5 K562 cells with 1 μ g HMGB2 Rabbit mAb(A9168), along with a Goat Anti-Rabbit IgG(H+L). The CUT&Tag results indicate the enrichment pattern of HMGB2 in representative gene loci (PTBP1), as shown in figure.



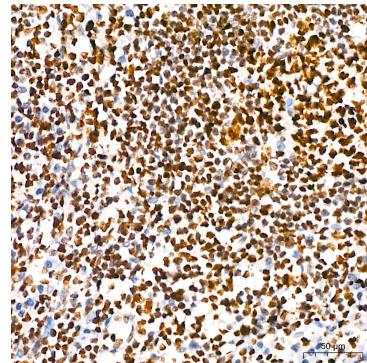
Immunohistochemistry analysis of paraffin-embedded Human colon using HMGB2 Rabbit mAb (A9168) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

1:100)(Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.

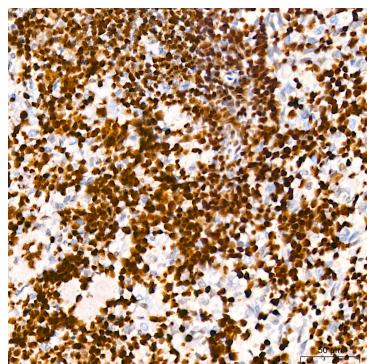


Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer using HMGB2 Rabbit mAb (A9168) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.

HMGB2 Rabbit mAb (A9168) at dilution of 1:200 (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 Human tonsil using HMGB2 Rabbit mAb (A9168) at dilution of 1:200 (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 spleen using HMGB2 Rabbit mAb (A9168) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.