# **HMGB2** Rabbit mAb

Catalog No.: A9168 Recombinant 2 Publications



## **Basic Information**

### **Observed MW**

24kDa

#### **Calculated MW**

24kDa

### Category

Primary antibody

### **Applications**

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

#### **Cross-Reactivity**

Human, Mouse, Rat

#### CloneNo 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)] 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 10<sup>5</sup> 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**

SourceIsotypePurificationRabbitIgGAffinity purification

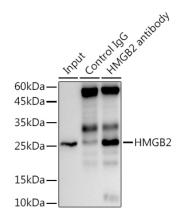
### **Storage**

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

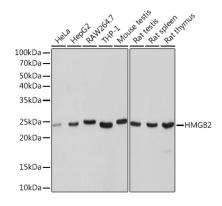
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

# Contact

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|-----------|---------------------------|
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| •         | www.abclonal.com.cr       |



Immunoprecipitation analysis of 300  $\mu$ g extracts from Mouse testis using 3  $\mu$ g HMGB2 antibody (A9168). Western blot was performed from the immunoprecipitate using HMGB2 (A9168) at a dilution of 1:1000.

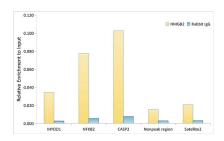


Western blot analysis of various lysates using HMGB2 Rabbit mAb (A9168) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit lgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins:  $25\mu g$  per lane.

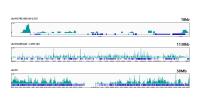
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

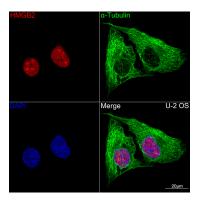
Exposure time: 1s.



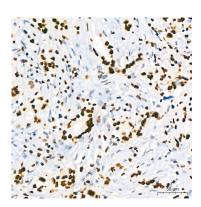
Chromatin immunoprecipitation analysis of extracts from HepG2 cells, using HMGB2 antibody (A9168) and rabbit IgG.The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.



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

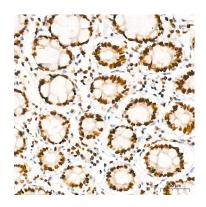


Immunohistochemistry analysis of paraffinembedded Human breast cancer using

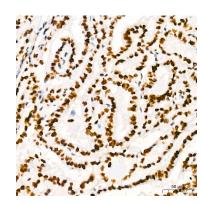
from  $10^{\rm s}$  K562 cells with  $1\mu g$  HMGB2 Rabbit mAb(A9168), along with a Goat Anti-Rabbit lgG(H+L). The CUT&Tag results indicate the enrichment pattern of HMGB2 in representative gene loci (PTBP1), as shown in figure.

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

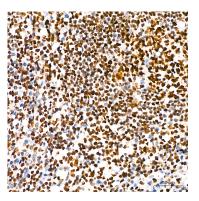
HMGB2 Rabbit mAb (A9168) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



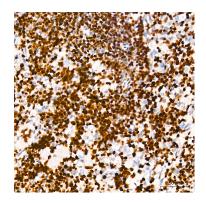
Immunohistochemistry analysis of paraffinembedded Human colon using HMGB2 Rabbit mAb (A9168) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded 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.



Immunohistochemistry analysis of paraffinembedded 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 paraffinembedded 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.