Leader in Biomolecular Solutions for Life Science

www.abclonal.com

# EHMT2/G9A Rabbit mAb

**Catalog No.: A29495** Recombinant

## Basic Information

**Observed MW**
160 kDa/170 kDa

**Calculated MW**
19 kDa/129 kDa/132 kDa

**Category**
Primary antibody

**Applications**
WB,IP,IF/ICC,IHC-P,ELISA

**Cross-Reactivity**
Human, Mouse, Rat

**CloneNo number**
ARC3375

## Background

This gene encodes a methyltransferase that methylates lysine residues of histone H3. Methylation of H3 at lysine 9 by this protein results in recruitment of additional epigenetic regulators and repression of transcription. This gene was initially thought to be two different genes, NG36 and G9a, adjacent to each other in the HLA locus. Alternative splicing results in multiple transcript variants.

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:2000 - 1:20000 |
| **IP** | 0.5 μg - 4 μg antibody for 400 μg - 600 μg extracts of whole cells |
| **IF/ICC** | 1:1000 - 1:4000 |
| **IHC-P** | 1:200 - 1:1000 |
| **ELISA** | Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy. |

## Immunogen Information

**Gene ID**
10919

**Swiss Prot**
Q96KQ7

**Immunogen**
This information is considered to be commercially sensitive.

**Synonyms**

## Product Information

**Source**
Rabbit

**Isotype**
IgG

**Purification**
Affinity purification

**Storage**
Store at -20℃

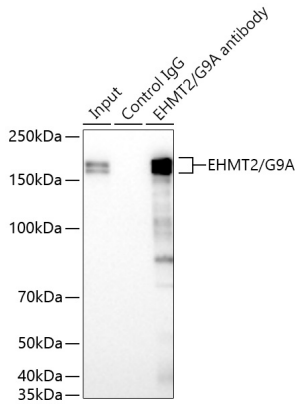
## Contact


400-999-6126

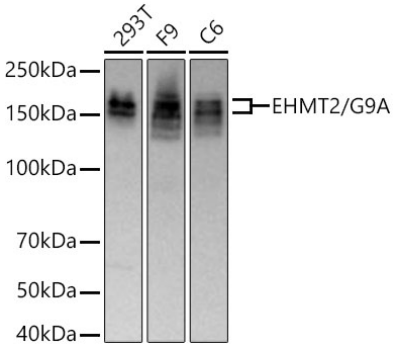
cn.market@abclonal.com.cn

www.abclonal.com.cn

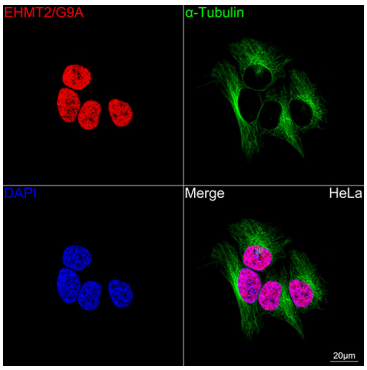
## Validation Data



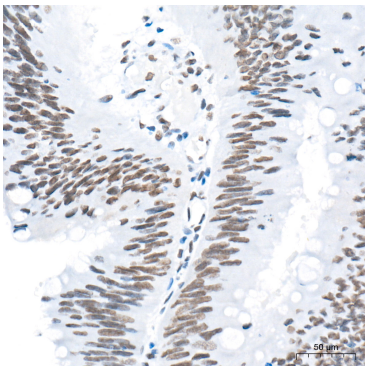

Immunoprecipitation of EHMT2/G9A from 600 µg extracts of Jurkat cells was performed using 1 µg of EHMT2/G9A Rabbit mAb (A29495). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using EHMT2/G9A Rabbit mAb (A29495) at a dilution of 1:5000.



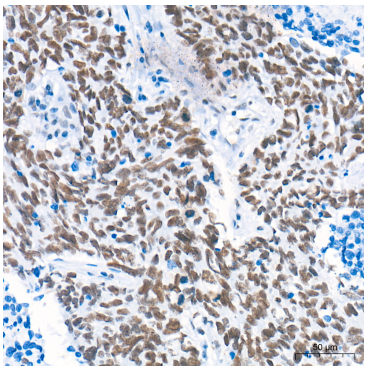

Western blot analysis of various lysates using EHMT2/G9A Rabbit mAb (A29495) at 1:20000 dilution incubated overnight at 4°C.|Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.|Lysates/proteins: 25 µg per lane.|Blocking buffer: 3% nonfat dry milk in TBST.|Detection: ECL Basic Kit (RM00020).|Exposure time: 90 s.




Confocal imaging of HeLa cells using EHMT2/G9A Rabbit mAb (A29495, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.

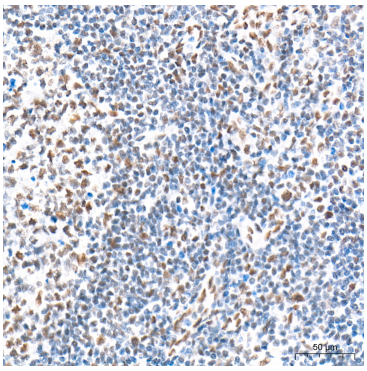


Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma tissue using EHMT2/G9A Rabbit mAb (A29495) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

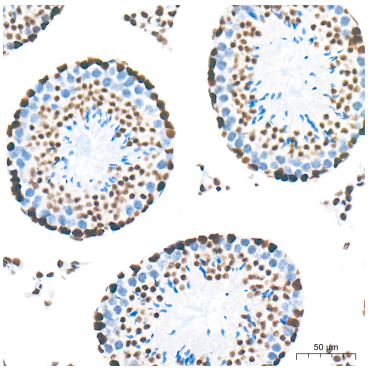


Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using EHMT2/G9A Rabbit mAb (A29495) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

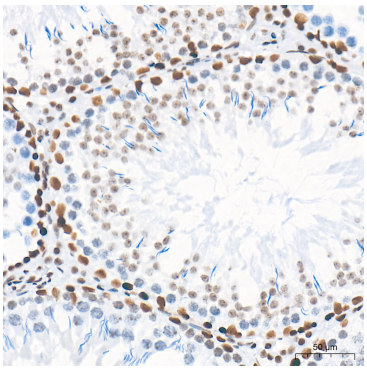
## Validation Data



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using EHMT2/G9A Rabbit mAb (A29495) at a dilution of 1:1000 (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 testis tissue using EHMT2/G9A Rabbit mAb (A29495) at a dilution of 1:1000 (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 testis tissue using EHMT2/G9A Rabbit mAb (A29495) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.