# TriMethyl-Histone H3-K9 Rabbit mAb

**Catalog No.: RA8017**

## Basic Information

**Observed MW**
17KDa

**Calculated MW**
16kDa

**Category**
Primary antibody

**Applications**
IF/ICC,ChIP

**Cross-Reactivity**

Human,Mouse,Rat

## Background

Recommended positive controls: 293T, A431, HeLa, HepG2.

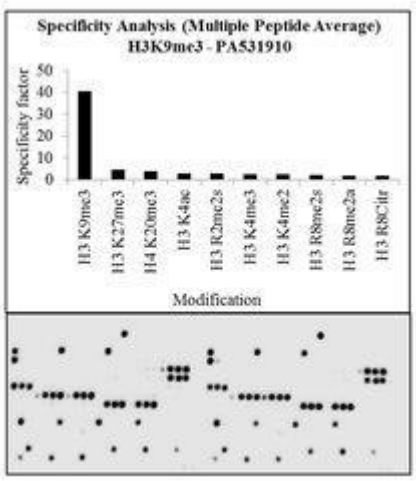
Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

## Recommended Dilutions

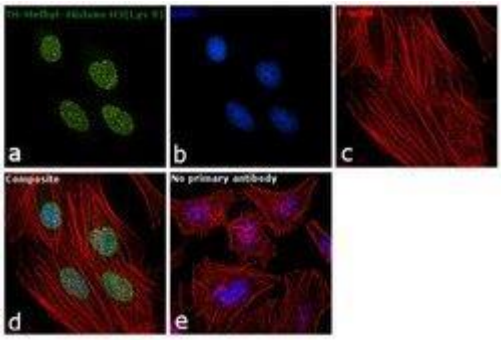
| | |
|---|---|
| **IM** | Assay Dependent |
| **WB** | 1: 500-1:3000 |
| **IHC(P)** | 1:100-1: 1000 |
| **IF/ICC** | 1: 100-1:1000 |
| **ChIP** | Assay Dependent |
| **IP** | 1:100-1:1000 |
| **Array** | 0.25μg/mL |

## Product Information

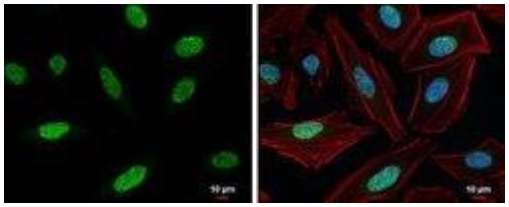
| | |
|---|---|
| **Source** | Rabbit |
| **Isotype** | IgG |
| **Purification** | Antigen affinity chromatography |
| **Storage Conditions** | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles |
| **Storage buffer** | PBS, pH 7, with 1% BSA, 20% glycerol |




**H3K9me3 Antibody**
Antibody specificity for modified targets can be established using peptide arrays by quantifying detection of the target protein along with closely related proteins. Peptide array of Histone H3K9me3 using Anti-Tri-Methyl-Histone H3 (Lys9) Antibody: An array of the specific peptide and other relevant peptides when tested Using Anti-TriMethyl-Histone H3 (Lys9) Polyclonal Antibody, showed that the Histone H3K9me3 modification was specifically recognized by the antibody. Peptide array validation info.




**H3K9me3 Antibody in IF**
Immunofluorescence analysis of Tri-Methyl-Histone H3 (Lys9) was performed using 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Tri-MethylHistone H3 (Lys9) Rabbit Polyclonal Antibody at 5µg/mL in 0.1% BSA and incubated overnight at 4 degree and then labeled with Goat antiRabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate at a dilution of1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI . F-actin (Panel c: red) was stained with Rhodamine Phalloidin (1:300). Panel d represents the merged image showing nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



**H3K9me3 Antibody in IF**
Immunofluorescent analysis of Tri-Methyl-Histone H3 (Lys9) in HeLa cells fixed in 4% paraformaldehyde at RT for 15 min, using a Tri-Methyl-Histone H3 (Lys9) polyclonal antibody . Green: Primary antibody at a dilution of 1:500. Red: Phalloidin, a cytoskeleton marker, diluted at 1:200. Blue: Hoechst 33342 staining.