

# MonoMethyl-Histone H3-K27 Rabbit pAb

Catalog No.: RA8019

## Basic Information

### Observed MW

17kDa

### Calculated MW

16kDa

### Category

Primary antibody

### Applications

IF/ICC

### Cross-Reactivity

Human, Mouse

## Background

These Polyclonal antibodies are of rabbit origin developed by immunizing animals with proteins or peptides. The polyclonal antibody is purified by affinity purification from the rabbit sera generated after immunizing the rabbits with a specific type of protein or peptide. The purified antibody is tested for its functionality in various relevant research applications. The antibody is developed for Research Use Only and is non-hazardous or non-infectious in nature.

Since it is conserved across species, the antibody may react with many other species

## Recommended Dilutions

IF/ICC	0.5 µg/mL
Array	0.25µg/mL

## Product Information

Source	Rabbit
Isotype	IgG
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 30% glycerol, 0.1% BSA
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Note: For in vitro research use only, not for diagnostic or therapeutic use, This product is not a medical device.

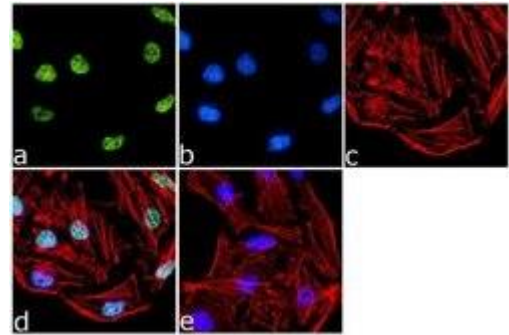
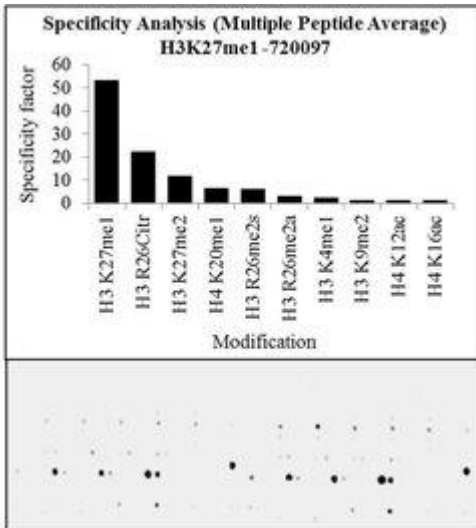
注意:在体外研究使用,不用于诊断或治疗用途,本产品不是医疗装置!

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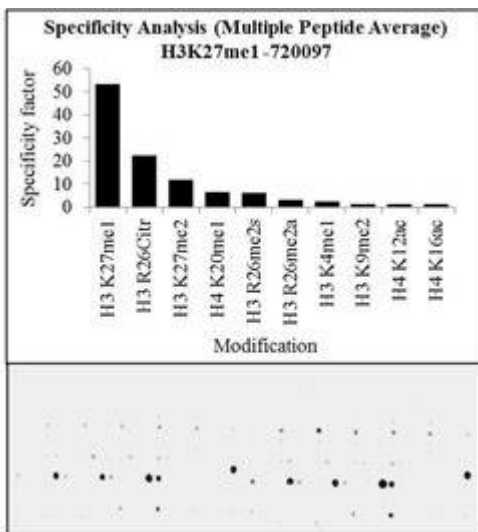


**H3K27me1 Antibody in IF**

Immunofluorescence was performed on fixed and permeabilized HepG2 cells for detection of Histone H3K27me1 using Anti-Histone H3K27me1 Rabbit Polyclonal Antibody (0.5 µg/mL) and labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (1:2000). Panel a) shows representative cells that were stained for detection and localization of Histone H3K27me1 protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938,). Panel c) represents cytoskeletal F-actin staining using Alexa Fluor® 555 Rhodamine Phalloidin (1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating nuclear localization of Histone H3K27Me1. Panel e) represents control cells with no primary Antibody to assess background.

**H3K27me1 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 H3K27me1 using Anti-Methyl-Histone H3 (Lys27) Polyclonal Antibody: An array of the specific peptide and other relevant peptides when tested using Anti-Methyl-Histone H3 (Lys27) Polyclonal Antibody, showed that the Histone H3K27me1 modification was specifically recognized by the antibody. Peptide array validation info.



**H3K27me1 Antibody in ARRAY**

The specificity of the antibody, Anti-Methyl-Histone H3 (Lys27) Polyclonal Antibody (0.25 µg/mL) to Histone H3K27me1 peptide was confirmed using MODified™ Histone Peptide Array (Active Motif, 13001). Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 1:4000 dilution) was used as the secondary antibody. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate. The dot blot data obtained (lower panel) was analyzed using Array Analyze software as per the manufacturer's instructions (top panel).



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