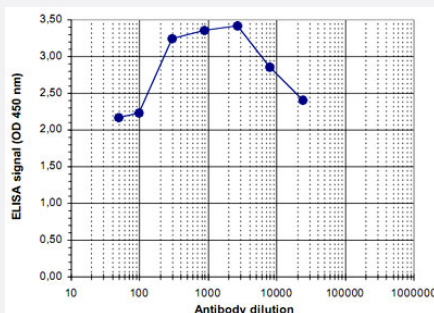
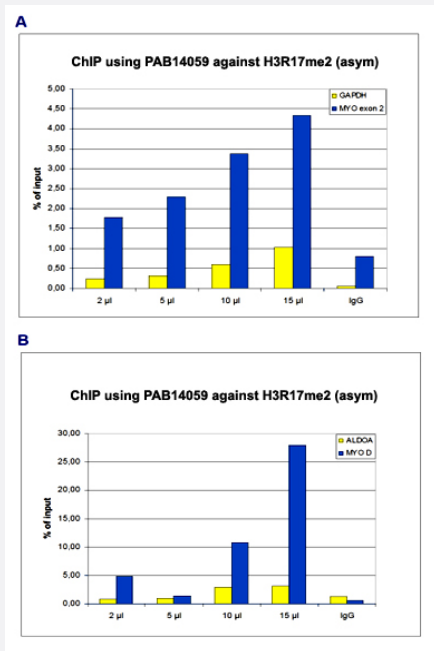


# H3R17me2 polyclonal antibody

Catalog # PAB14059      Size 100 uL

## Applications



## ChIP

ChIP assays were performed using human osteosarcoma (U-2 OS) cells, the polyclonal antibody against H3R17me2(asym) (Cat # PAB14059) and optimized PCR primer sets for qPCR.

Figure A: qPCR performed with primers for the GAPDH promoter and for exon 2 of the myoglobin gene.

Figure B: qPCR performed with primers for the promoter of the active ALDOA gene and for the coding region of the inactive MYOD gene.

## Enzyme-linked Immunoabsorbent Assay

ELISA was performed using a serial dilution of H3R17me2 polyclonal antibody (Cat # PAB14059).

The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution, the titer of the crude serum was estimated to be 1 : 40,000.

## Specification

### Product Description

Rabbit polyclonal antibody raised against synthetic peptide of H3R17me2.

### Immunogen

A synthetic peptide (conjugated with KLH) corresponding to region of histone H3 containing the asymmetrically dimethylated arginine 17 (H3R17me2 (asym)).

Host	Rabbit
Reactivity	Human
Form	Liquid
Recommend Usage	ELISA (1:1000-1:3000) Dot Blot (1:20000) Western Blot (1:250) ChIP (10-15 ul/ChIP) The optimal working dilution should be determined by the end user.
Storage Buffer	In serum (0.05% sodium azide)
Storage Instruction	Store at -20°C. For long term storage store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- ChIP

ChIP assays were performed using human osteosarcoma (U-2 OS) cells, the polyclonal antibody against H3R17me2(asym) (Cat # PAB14059) and optimized PCR primer sets for qPCR.

Figure A: qPCR performed with primers for the GAPDH promoter and for exon 2 of the myoglobin gene.

Figure B: qPCR performed with primers for the promoter of the active ALDOA gene and for the coding region of the inactive MYOD gene.

- Western Blot

- Enzyme-linked Immunoabsorbent Assay

ELISA was performed using a serial dilution of H3R17me2 polyclonal antibody (Cat # PAB14059).

The antigen used was a peptide containing the histone modification of interest.

By plotting the absorbance against the antibody dilution, the titer of the crude serum was estimated to be 1 : 40,000.

- Dot Blot

## Publication Reference

- [Dynamic regulation of histone lysine methylation by demethylases.](#)

Shi Y, Whetstone JR.

Molecular Cell 2007 Jan; 25(1):1.

- [Stimulation of the Ras-MAPK pathway leads to independent phosphorylation of histone H3 on serine 10 and 28.](#)

Dunn KL, Davie JR.

Oncogene 2005 May; 24(21):3492.

- [Intra- and inter-nucleosomal protein-DNA interactions of the core histone tail domains in a model system.](#)

Zheng C, Hayes JJ.

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