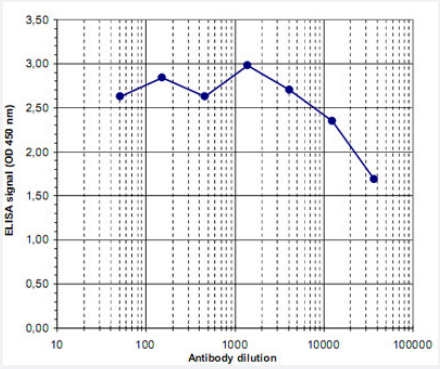
H3K9me1 polyclonal antibody

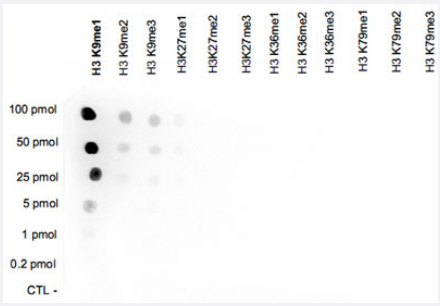
Catalog # PAB14049 Size 100 uL

Applications



Enzyme-linked Immunoabsorbent Assay

ELISA was performed using a serial dilution of H3K9me1 polyclonal antibody (Cat # PAB14049).
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 : 50,000.



Dot Blot

A Dot Blot analysis was performed to test the cross reactivity of H3K9me1 polyclonal antibody (Cat # PAB14049) with other modifications of histone H3. Other histone modifications include di- and trimethylation of the same lysine and mono-, di- and trimethylation of lysine 27, 36 and 79. One hundred to 0.2 pmol of peptide containing the respective histone modification were spotted on a membrane.
The antibody was used at a dilution of 1 : 200,000.
Figure shows a high specificity of the crude serum for the modification of interest.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of H3K9me1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to region of histone H3 containing the mon omethylated lysine 9 (H3K9me1).
Host	Rabbit
Reactivity	Human

Form	Liquid
Recommend Usage	ELISA (1:2000-1:3000) Dot Blot (1:200000) Western Blot (1:1000) Immunofluorescence (1:200) ChIP (10 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 shoul d be handled by trained staff only.

Applications

- ChIP
- Western Blot
- Immunofluorescence
- Enzyme-linked Immunoabsorbent Assay

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  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 : 50,000.

- Dot Blot

  A Dot Blot analysis was performed to test the cross reactivity of H3K9me1 polyclonal antibody (Cat # PAB14049) with other modifications of histone H3.
  Other histone modifications include di- and trimethylation of the same lysine and mono-, di- and trimethylation of lysine 27, 36 and 79. One hundred to 0.2 pmol of peptide containing the respective histone modification were spotted on a membrane.
  The antibody was used at a dilution of 1 : 200,000.
  Figure shows a high specificity of the crude serum for the modification of interest.

Publication Reference

- Role for 53BP1 Tudor domain recognition of p53 dimethylated at lysine 382 in DNA damage signaling.

  Kachirskaia I, Shi X, Yamaguchi H, Tanoue K, Wen H, Wang EW, Appella E, Gozani O.

  The Journal of Biological Chemistry 2008 Oct; 283(50):34660.

- High-resolution profiling of histone methylations in the human genome.

  Barski A, Cuddapah S, Cui K, Roh TY, Schones DE, Wang Z, Wei G, Chepelev I, Zhao K.

  Cell 2007 May; 129(4):823.

- Intra- and inter-nucleosomal protein-DNA interactions of the core histone tail domains in a model system.

  Zheng C, Hayes JJ.

  The Journal of Biological Chemistry 2003 Apr; 278(26):24217.