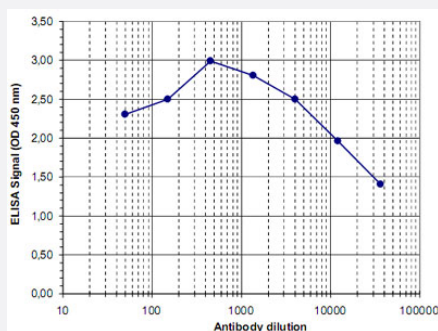


H3K79me1 polyclonal antibody

Catalog # PAB14056 Size 100 uL

Applications



Enzyme-linked Immunoabsorbent Assay

ELISA was performed using a serial dilution of H3K79me1 polyclonal antibody (Cat # PAB14056) in antigen coated wells. 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 : 30,000.

Dot Blot

To determine the cross reactivity of H3K79me1 polyclonal antibody (Cat # PAB14056) with other histone H3 modifications, a Dot Blot analysis was performed.

Tested histone H3 modifications include di- and trimethylation of the same lysine and mono-, di- and trimethylation of lysine 9, 27 and 36. One hundred to 0.2 pmol of peptide containing the respective histone modification were spotted on a membrane and detected with the crude serum diluted 1 : 100,000. Figure shows a high specificity for the modification of interest.



Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of H3K79me1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to region of histone H3 containing the monomethylated lysine 79 (H3K79me1).
Host	Rabbit
Reactivity	Human
Form	Liquid

Recommend Usage	ELISA (1:500-1:1000) Dot Blot (1:100000) Western Blot (1:1000) ChIP (5-10 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 should be handled by trained staff only.

Applications

- ChIP

- Western Blot

- Enzyme-linked Immunoabsorbent Assay

ELISA was performed using a serial dilution of H3K79me1 polyclonal antibody (Cat # PAB14056) in antigen coated wells. 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 : 30,000.

- Dot Blot

To determine the cross reactivity of H3K79me1 polyclonal antibody (Cat # PAB14056) with other histone H3 modifications, a Dot Blot analysis was performed.

Tested histone H3 modifications include di- and trimethylation of the same lysine and mono-, di- and trimethylation of lysine 9, 27 and 36. One hundred to 0.2 pmol of peptide containing the respective histone modification were spotted on a membrane and detected with the crude serum diluted 1 : 100,000.

Figure shows a high specificity for the modification of interest.

Publication Reference

- [Role for 53BP1 Tudor domain recognition of p53 dimethylated at lysine 382 in DNA damage signaling.](#)

Kachirskaja 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.