



Anti-Monomethyl Histone H3 (Lys 9) [Clone RM150]

Catalogue no: 700022

Applications: CHIP, WB, ICC, ELISA, Multiplex

Concentration: 1mg/ml

Size: 100µl

Specificity: Human

Source: Rabbit

Type: Monoclonal

Purification: Protein A (affinity purified)

Storage: +4°C

Background:

Histone 3 is one of the core histone proteins, comprising the protein component of chromatin. Histones 3 monomethyl lysine 9 (H3K9me1) is a histone mark associated with gene activation. It is enriched at the transcriptional start site of genes and is detected in active gene promoters, where it can characterise active gene transcription.

Immunogen:

A monomethyl-peptide corresponding to monomethyl-histone H3 (Lys 9).

Buffer:

50% Glycerol/PBS with 1% BSA and 0.09% sodium azide.

Applications:

Application	Suggested Dilution	Figure
Chromatin Immunoprecipitation	2µg: 1µg (chromatin: antibody)	1
Western blot	0.5µg/mL - 2µg/mL	2
Immunocytochemistry	0.5µg/mL - 2µg/mL	3
ELISA	0.5µg/mL - 2µg/mL	
Multiplex	0.1µg/mL - 0.5µg/mL	

Please note: Optimal antibody dilutions should be determined by the user. These volumes are stated as guidelines only.

Fig 1. H3K9me1 ChIP qPCR

Chromatin immunoprecipitation (ChIP) assays were performed using the Chromatrap® standard ChIP spin column sonication kit for qPCR (Cat no. 500071) with 1 µg of chromatin from Hec50 cells and 2 µg of Anti-H3K9me1 antibody. qPCR was used to analyse the enrichment of H3K9me1 onto the positive gene locus and was compared to the non-specific background IgG.

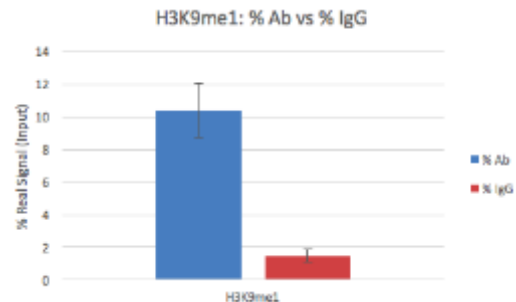


Fig 2. H3K9me1 Western Blot

Western Blot of recombinant histone H3.3 (1) and acid extracts of HeLa cells (2), using H3K9me1 at 0.5 µg/mL, showed a band of H3K9me1 at 15kDa in HeLa cells.

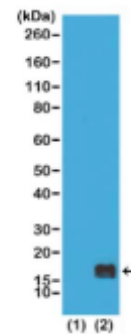


Fig 3. H3K9me1 Immunocytochemistry

Immunocytochemistry of HeLa cells, using monomethyl-histone H3 (Lys 9) Rabbit mAb (red). Actin filaments have been labelled with fluorescein phalloidin (green).

