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10-9560: Recombinant Rabbit Monoclonal Antibody to Dimethylated Histone H3 Lysine 79, H3K79me2 (Clone: RM181)(Discontinued)

Clonality :	Monoclonal
Clone Name :	RM181
Application :	WB,ELISA,Multiplex,ChIP,IHC
Reactivity :	All Species
Gene :	H3F3A
Gene ID :	3020
Uniprot ID :	P84243
Format :	Purified
Alternative Name :	Histone H3.3
Isotype :	Rabbit IgG
Immunogen Information :	A dimethyl-peptide corresponding to Dimethyl-Histone H3 (Lys79).

Product Info

Amount :	100 µg
Purification :	Protein A affinity purified from an animal origin-free culture supernatant
Content :	1 mg/ml in 50% Glycerol/PBS with 1% BSA and 0.09% sodium azide
Storage condition :	Store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Clone RM181 reacts to Histone H3 dimethylated at Lysine 79 (K79me2).). Very slightly cross-reacts with monomethylated Lysine 79 (K79me1) at high concentration. No cross reactivity with non-modified Lysine 79 (K79 ctrl), trimethylated Lysine 79 (K79me3), or other methylations in Histone H3. Western Blot: 0.25 Ã□Âµg/ml Ã□â□□ 1 Ã□Âµg/ml; IHC: 0.1 Ã□Âµg/ml Ã□â□□ 1 Ã□Âµg/ml; ChIP: 2 Ã□Âµg/ml- 10 ug.ml; ELISA: 0.2 Ã□Âµg/ml - 1 Ã□Âµg/ml; Multiplex: 0.1 Ã□Âµg/ml Ã□â□□ 0.5 Ã□Âµg/ml.

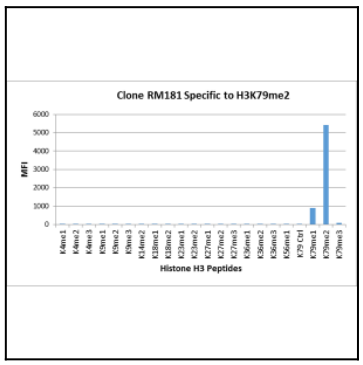


Figure 1: Clone: RM181 specifically reacts to Histone H3 dimethylated at Lysine 79 (K79me2). Very slightly cross reactivity with monomethylated Lysine 14 (K14me1), and no cross reactivity with non-modified Lysine 79 (K79 ctrl), trimethylated Lysine 79 (K79me3), or other methylations in Histone H3.

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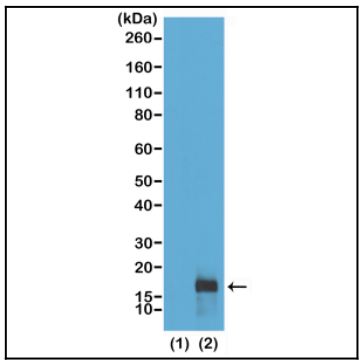


Figure 2: Western Blot of recombinant histone H3.3 (1) and acid extracts of HeLa cells (2), using Clone: RM181 at 0.25 µg/ml, showed a band of histone H3 dimethylated at Lysine 79 (K79me2) in HeLa cells.

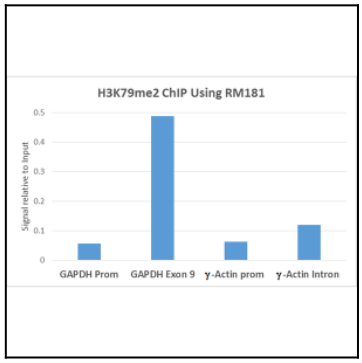


Figure 3: ChIP performed on HeLa cells using H3K79me2 antibody (Clone: RM181, 5ug). Real-time PCR was performed using primers specific to the gene indicated.

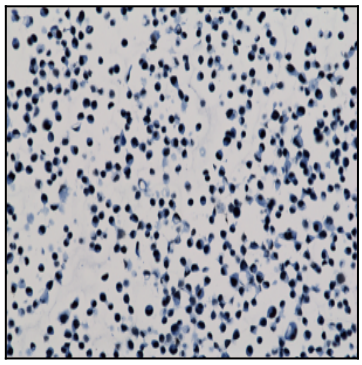


Figure 4: Immunohistochemistry staining of HepG2 cells using Anti-Dimethyl-Histone H3 (Lys79) antibody, Clone: RM181.

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