

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 µg/ml - 1 µg/ml; IHC: 0.1 µg/ml - 1 µg/ml; ChIP: 2 µg/ml - 10 µg/ml; ELISA: 0.2 µg/ml - 1 µg/ml; Multiplex: 0.1 µg/ml - 0.5 µg/ml.

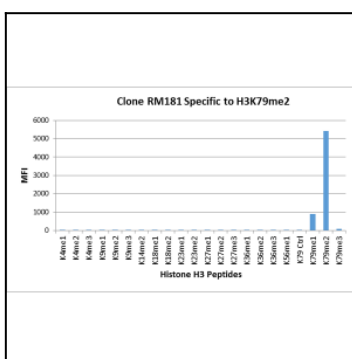


Figure 1: Clone: RM181 specifically reacts to Histone H3 dimethylated at Lysine 79 (K79me2). Very slightly cross reactivity with monomethylated Lysine 14 (K14me1), and no cross reactivity with non-modified Lysine 79 (K79 ctrl), trimethylated Lysine 79 (K79me3), or other methylations in Histone H3.

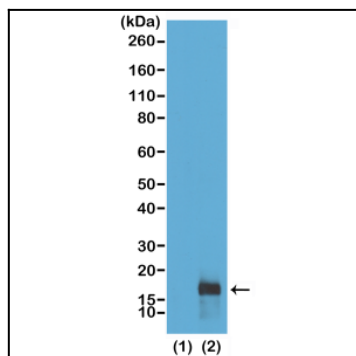


Figure 2: Western Blot of recombinant histone H3.3 (1) and acid extracts of HeLa cells (2), using Clone: RM181 at 0.25 $\mu\text{g/ml}$, showed a band of histone H3 dimethylated at Lysine 79 (K79me2) in HeLa cells.

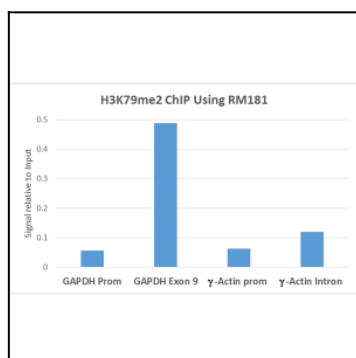


Figure 3: ChIP performed on HeLa cells using H3K79me2 antibody (Clone: RM181, 5 μg). Real-time PCR was performed using primers specific to the gene indicated.

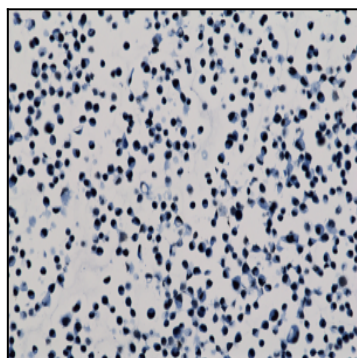


Figure 4: Immunohistochemistry staining of HepG2 cells using Anti-Dimethyl-Histone H3 (Lys79) antibody, Clone: RM181.