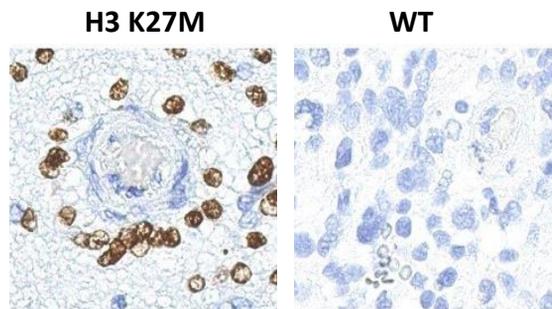


## Rabbit Monoclonal Antibodies for Histone Mutations

Histone mutations have been identified in multiple cancers and demonstrated potential as a useful diagnostic tool. RevMab's Histone H3 Mutation Antibodies have been extensively validated in a variety of applications including IHC, WB, ICC, ELISA, and CHIP. Histone H3 K27M mutation is linked to diffuse midline glioma and H3 K36M is closely associated with chondroblastoma. H3.3 G34W, G34R and G34V mutant-specific antibodies are useful surrogate markers for the diagnosis of GCTBs (Giant cell tumors of bone).

### Histone H3.3 K27M [RM192] Monoclonal Antibody

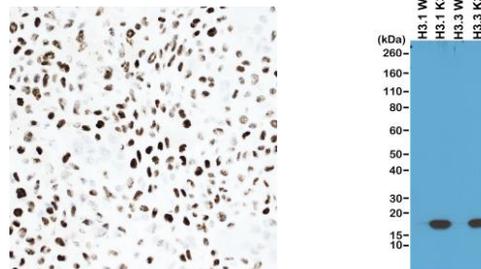
Immunostaining of brain tumor tissue sections with H3 K27M expression (left image) or without K27M expression (right image) using RM192 antibody.



IHC Image courtesy of Dr. Sebastian Brandner, UCL, London, UK

### Histone H3.3 K36M [RM193] Monoclonal Antibody

Immunohistochemical staining of formalin fixed paraffin embedded (FFPE) Chondroblastoma tumor tissue section and Western Blot analysis of 293T cells transfected with a DNA construct encoding WT or K36M mutant proteins of Histone H3.1 and H3.3 using RM193 antibody.



IHC Image courtesy of Dr. Adrienne Flanagan, RNOH, UK

## References

- Schaefer IM, et al. Immunohistochemistry for Histone H3G34W and H3K36M Is Highly Specific for Giant Cell Tumor of Bone and Chondroblastoma, Respectively, in FNA and Core Needle Biopsy. *Cancer Cytopathol* 2018, IHC-P (Human)
- Pathania M et al. H3.3K27M Cooperates with Trp53 Loss and PDGFRA Gain in Mouse Embryonic Neural Progenitor Cells to Induce Invasive High-Grade Gliomas *Cancer Cell* 2017, IHC-P (Human)
- Fang D, et al. The histone H3.3K36M mutation reprograms the epigenome of chondroblastomas. *Science* 2016, CHIP

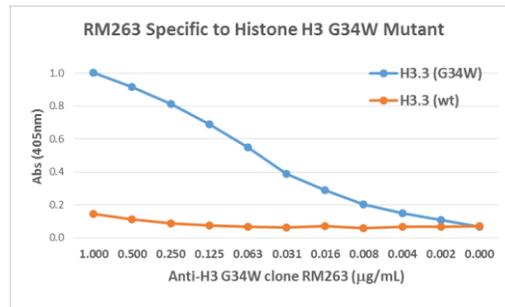
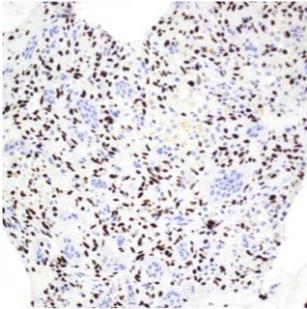
Highly mutant –specific

Validated in IHC, WB,  
ELISA, ICC, and CHIP

See back for Ordering  
Information and Product Catalog

## Histone H3.3 G34 Mutation Antibodies

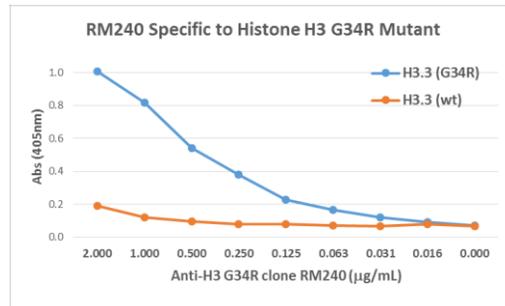
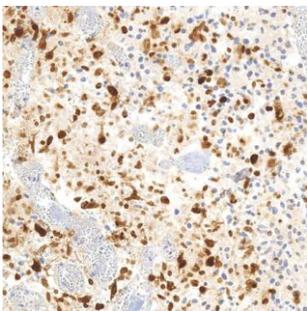
### Histone H3.3 G34W [RM263] Rabbit Monoclonal Antibody



Immunohistochemical staining of Giant Cell Bone Tumor (GCBT) tissue section with H3.3 G34W expression using RM263 antibody. ELISA showing RM263 does not react to H3.3 (WT).

IHC Image courtesy of Dr. Sebastian Brandner, UCL, UK

### Histone H3.3 G34R [RM240] Rabbit Monoclonal Antibody



Immunohistochemical staining of Glioblastoma tumor tissue section with H3.3 G34R expression using RM240 antibody. ELISA showing RM240 does not react to H3.3 (WT).

IHC Image courtesy of Dr. Adrienne Flanagan, RNOH, UK

## References

Yoshida KI et al. Absence of H3F3A mutation in a subset of malignant giant cell tumor of bone. *Mod Pathol.* 2019, IHC (Human)

Rehkamper J et al. Diagnostic tools in the differential diagnosis of giant cell-rich lesions of bone at biopsy. *Oncotarget.* 2018, oncotarget, IHC-P (Human)

Yamamoto H et al. Diagnostic utility of histone H3.3G34 W, G34R, and G34 V mutant-specific antibodies for giant cell tumors of bone. *Human Pathology* 2017, IHC (Human)

## Histone Mutation Antibodies

Product Name	Type	Catalog No.	Clone	Application	Pack Size
Histone 3.3 K36M	Rabbit mAb	31-1085-00	RM193	WB, IHC, ELISA, ICC, ChIP	100µL/400µL
Histone 3.3 K27M	Rabbit mAb	31-1175-00	RM192	WB, IHC, ELISA, ICC	100µL/400µL
Histone 3.3 K9M	Rabbit mAb	31-1160-00	RM191	WB, IHC, ELISA, ICC	100µL/400µL
Histone 3.3 K4M	Rabbit mAb	31-1250-00	RM363	WB, IHC, ELISA, ICC	100µL/400µL
Histone 3.3 G34W	Rabbit mAb	31-1145-00	RM263	WB, IHC, ELISA, ICC, ChIP	100µL/400µL
Histone 3.3 G34R	Rabbit mAb	31-1120-00	RM240	WB, IHC, ELISA, ICC, ChIP	100µL/400µL
Histone 3.3 G34V	Rabbit mAb	31-1193-00	RM307	WB, IHC, ELISA, ICC	100µL/400µL

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