

**DATASHEET**

**H3K27M Rabbit Monoclonal Antibody(ARB964)**

CAT. NO. ARB6756

**KEY FEATURES**

Target	H3K27M	Clonality	Monoclonal
Clone ID	ARB964	Applications	IHC
Source / Host	Rabbit	Dilution	1:100-1:200
Reactivity	Human	Storage	at-20°C

**BACKGROUND**

H3K27M: encoded by the mutation of a histone H3 gene such as H3F3A. It expressed during S phase, then expression strongly decreases as cell division slows down during the process of differentiation. Histones play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. Diffuse midline glioma, H3K27M - mutant is a lethal brain tumor located in the thalamus, brain stem, or spinal cord. H3K27M plays a pivotal role in the tumorigenesis of this type of glioma. Some results indicated that the H3F3A K27M mutation was found in approximately 80% of diffuse intrinsic pontine gliomas (DIPGs), 50% of thalamic tumors, and 60% of spinal tumors. H3K27M can be used as an important molecular marker in the diagnosis of diffuse midline gliomas in children and young adults, it is associated with poor prognosis.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

IHC	1:100 - 1:200
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

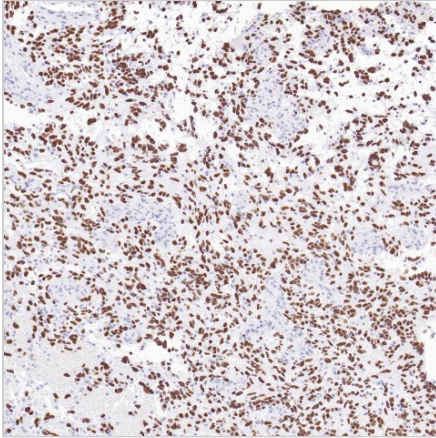
Predicted Molecular Wt	15kDa
Purity	ProA affinity purified IgG
Subcellular location	Nucleus
Swissprot ID	P68431
Immunogen	Synthetic peptide.
Storage Buffer	PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%
Recommended Method	Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Immunohistochemical staining of human diffuse midline glioma tissue using H3K27M Rabbit Monoclonal Antibody(ARB964)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: [www.arexbio.com](http://www.arexbio.com)