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Rev.: 2024-1-10

H3K27M
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX50317
Clone# BP6294

Predicted Molecular Wt: 15kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P68431

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.

Subcellular location:

Nucleus

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.

Immunogen:

Synthetic peptide. This information is proprietary to Biolynx.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage Conditions:

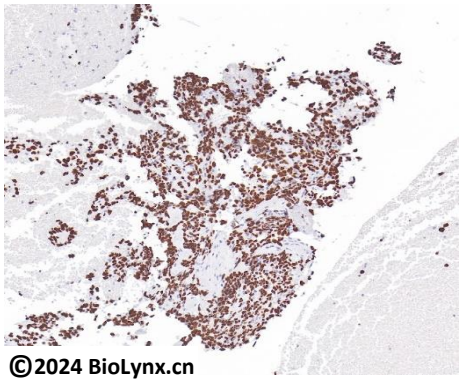
-25°C to -18°C

Shipment Instructions:

Shipped on blue ice. Upon delivery store at -25°C to -18 °C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of H3K27M mutant diffuse midline glioma tissue sections labeling H3K27M with BP6294.

Background References:

1. Maeda S,et al. Acta Neuropathol Commun. 2020 Feb 5;8(1):8.

2. Pathania M,,et al. Cancer Cell. 2017 Nov 13;32(5):684-700.e9.

Product QC'd by:

For research use only. Not for use in diagnostic or therapeutic applications.