

NUT1

Recombinant Rabbit Monoclonal Antibody

Product Datasheet

Catalog# BX50244

Clone# BP6221

Predicted Molecular Wt: 120kDa

Species Cross-reactivity: Human

Applications: IHC-P

Purity: ProA affinity purified IgG

Form: Liquid

Swissprot ID: Q86Y26

Background:

Nuclear protein in testis (NUT1 or NUTM1) is a nuclear protein encoded by the NUTM1 gene on chromosome 15 and normally expressed in testicular tissues. NUT1 is an unstructured protein with few orthologs, and shuttles between the nucleus and cytoplasm. NUT cancer (formerly NUT Midline Carcinoma) occurs after a gene fusion event between NUTM1 and often a bromodomain (BRD) family gene in about 75% of cases. NUTM1 less commonly fuses with NSD3, MXD4, MGA, ZNF532, CIC, and other rare variants, which are all considered to be NUT cancers.

NUT cancers can be carcinomas, sarcomas, lymphomas, and other types of tumors, and are often formed in the head, neck, or mediastinum. However, primary cancers have been reported in kidney, bladder, lung, breast, and metastasis to lymph nodes has also been seen for these very aggressive tumors.

NUT1 antibody is mainly used in the diagnosis of midline carcinoma.

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 corresponding to residues of NUT1 was used as an immunogen.

Storage Buffer:

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

Storage Conditions:

-25°C to -18°C

Shipment Instructions:

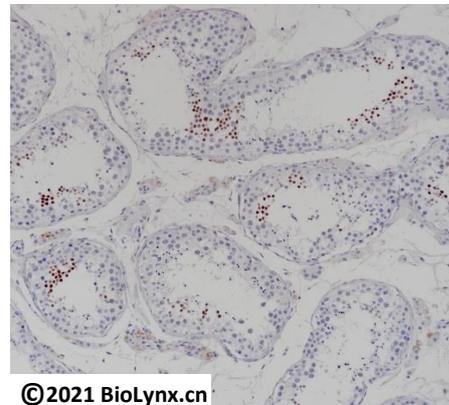
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

Recommended Dilution:

IHC-P: 1:100-1:200

Background References:

1. French, C.A. et al. (2003) Cancer Res 63, 304-7.
2. Haack, H. et al. (2009) Am J Surg Pathol 33, 984-91.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of testis labelling NUT1 with BP6221.

Product QC'd by: 

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