

MUC 1

Recombinant Rabbit Monoclonal Antibody

Product Datasheet

Catalog# BX50029

Clone# BP6034

Predicted Molecular Wt: 122kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P15941

Background:

MUC1 (Mucin 1) is a transmembrane glycoprotein that protects epithelial cells from injury caused by external stimuli. In addition to this role, MUC1 is involved in cell-cell adhesion, proliferation, motility, invasion and survival. In epithelial cells, MUC1 expression is regulated by binding of TNF α to TNFR1 and activation of the NF κ B pathway.

MUC1 is present in a variety of glandular (secretory) epithelia such as breast, eccrine and apocrine glands, and pancreas, whereas little or no MUC1 is expressed in the gastrointestinal epithelium, endocervical epithelium, and prostate glands. The immunoreactivity is usually limited to apical cell membranes, but a staining of the Golgi zone may also be seen. MUC1 can be demonstrated in most types of adenocarcinomas derived from secretory epithelia. In well-differentiated carcinomas, the staining is mostly limited to (apical) cell membranes while in the less differentiated carcinomas, a cytoplasmic staining is seen with loss of staining polarity in the membranes.

MUC1 was used to recognize epithelial differentiation when cytokeratin was difficult to visualize. In the classification of haematolymphoid neoplasms, a positive MUC1 reaction may be an aid in the identification of diffuse large B-cell lymphoma, plasma cell neoplasms and nodular lymphocyte predominant Hodgkin's lymphoma.

Subcellular location:

Membrane/Cytoplasm

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 MUC1 residues within aa1155-1255 of MUC1 was used as an immunogen.

Storage Buffer:

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

Storage conditions:

-20°C

Storage instructions:

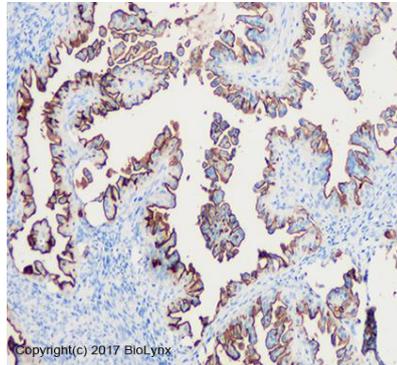
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

IHC-P: 1:100-1:200

Background References:

1. Croce MV, et.al, J Histochem Cytochem. 2003 Jun;51(6):781-8.
2. Nakamori S, et.al, Gastroenterology. 1994 Feb;106(2):353-61.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections analysis of human ovarian cancer tissue labelling MUC1 with BP6034. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by:



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