



Rabbit Anti-Human MUC1 Monoclonal Antibody, clone CQ7145 (CABT-Z207R)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Synthetic peptide corresponding to MUC1 residues within aa1155-1255 of MUC1 was used as an immunogen.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	CQ7145
Purification	ProA affinity purified IgG.
Conjugate	Unconjugated
Applications	IHC-P Recommended concentration: IHC-P: 1:100-1:200
Molecular Weight	122 kDa
Cellular Localization	Membrane/Cytoplasm
Positive Control	Ovarian cancer
Format	Liquid
Concentration	Lot specific
Size	100 µl

Buffer	PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.
Preservative	0.01% Sodium azide
Storage	Store at -20 °C. Avoid freeze/thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction

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.

Keywords MUC1; mucin 1, cell surface associated; EMA; MCD; PEM; PUM; KL-6; MAM6; MCKD; PEMT

GENE INFORMATION

Gene Name	MUC1
Entrez Gene ID	4582
UniProt ID	P15941