



# Mouse Anti-Human MUC1 monoclonal antibody, clone JID734 (CABT-L2950)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
<b>Specificity</b>	Human MUC1
<b>Isotype</b>	IgG
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	JID734
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC
<b>Reconstitution</b>	<p>The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining.</p> <p>The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.</p>
<b>Positive Control</b>	Breast, Colon, Associated Adenocarcinomas
<b>Format</b>	Liquid
<b>Size</b>	Predilut: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
<b>Buffer</b>	Predilute: Antibody Diluent Buffer

Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

<b>Preservative</b>	< 0.1% Sodium Azide
<b>Storage</b>	Store at 2-8°C. Do not freeze.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	Mucin 1 (MUC1) is a membrane-bound glycoprotein involved in a number of protective and cell-signaling functions, including cell-cell adhesion, proliferation, motility, invasion, and survival. Overexpression of MUC1 is clinically indicated in breast carcinomas, papillary thyroid carcinomas, and thymic carcinomas, and reports have named MUC1 as a useful marker for differentiating thymic carcinoma from type B3 thymoma. The expression of MUC1 is correlated with the grade of malignancy in thymic epithelial tumors, and loss of MUC1 expression has been associated with reactive gastropathy. MUC1 is not expressed in normal human epidermis, but has been detected in the epidermis of psoriatic plaques of biopsies from patients diagnosed with psoriasis vulgaris.
<b>Keywords</b>	MUC1;mucin 1, cell surface associated;EMA;MCD;PEM;PUM;KL-6;MAM6;MCKD;PEMT

## GENE INFORMATION

<b>Gene Name</b>	MUC1 mucin 1, cell surface associated [ Homo sapiens (human) ]
<b>Official Symbol</b>	MUC1
<b>Synonyms</b>	MUC1; mucin 1, cell surface associated; EMA; MCD; PEM; PUM; KL-6; MAM6; MCKD; PEMT; CD227; H23AG; MCKD1; MUC-1; ADMCKD; ADMCKD1; CA 15-3; MUC-1/X; MUC1/ZD; MUC-1/SEC; mucin-1; episialin; DF3 antigen; H23 antigen; cancer antigen 15-3; krebs von den Lungen-6; mucin 1, transmembrane; carcinoma-associated mucin; polymorphic epithelial mucin; peanut-reactive urinary mucin; tumor associated epithelial mucin; breast carcinoma-associated antigen DF3; tumor-associated epithelial membrane antigen; Medullary cystic kidney disease, autosomal dominant;
<b>Entrez Gene ID</b>	<a href="#">4582</a>
<b>Protein Refseq</b>	NP_001018016
<b>UniProt ID</b>	<a href="#">P15941</a>
<b>Chromosome Location</b>	1q21
<b>Pathway</b>	IL-7 Signaling Pathway; Metabolism of proteins; O-linked glycosylation; O-linked glycosylation

of mucins; Post-translational protein modification; Termination of O-glycan biosynthesis;

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**Function**

RNA polymerase II core promoter proximal region sequence-specific DNA binding; p53 binding; protein binding; transcription cofactor activity;

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