

MUC1 monoclonal antibody, clone VU-4H5

Catalog # MAB1959

Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of MUC1.
Immunogen	A synthetic peptide corresponding to human MUC1.
Sequence	VTSAPDTRPAPGSTAPPAHG
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgG1
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.08% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunohistochemistry (Frozen sections)

- Enzyme-linked Immunoabsorbent Assay

Gene Info — MUC1

Entrez GeneID	4582
Gene Name	MUC1
Gene Alias	CD227, EMA, H23AG, MAM6, PEM, PEMT, PUM
Gene Description	mucin 1, cell surface associated
Omim ID	158340
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the mucin family and encodes a membrane bound, glycosylated phosphoprotein. The protein is anchored to the apical surface of many epithelia by a transmembrane domain, with the degree of glycosylation varying with cell type. It also includes a 20 aa variable number tandem repeat (VNTR) domain, with the number of repeats varying from 20 to 120 in different individuals. The protein serves a protective function by binding to pathogens and also functions in a cell signaling capacity. Overexpression, aberrant intracellular localization, and changes in glycosylation of this protein have been associated with carcinomas. Multiple alternatively spliced transcript variants that encode different isoforms of this gene have been reported, but the full-length nature of only some has been determined. [provided by RefSeq]
Other Designations	DF3 antigen H23 antigen MUC-1/SEC MUC-1/X MUC1/ZD OTTHUMP00000033787 OTTHUMP00000033790 OTTHUMP00000033795 breast carcinoma-associated antigen DF3 episialin mucin 1 mucin 1, transmembrane peanut-reactive urinary mucin polymorphic epithelial mucin tumor as

Publication Reference

- [Characterization of a new MUC1 monoclonal antibody \(VU-2-G7\) directed to the glycosylated PDTR sequence of MUC1.](#)

Ryuko K, Schol DJ, Snijdwint FG, von Mensdorff-Pouilly S, Poort-Keesom RJ, Karuntu-Wanamarta YA, Verstraeten RA, Miyazaki K, Kenemans P, Hilgers J.

Tumour Biology 2000 Jul; 21(4):197.

Application: ELISA, Flow Cyt, Human, Mouse, ZR-75-1, T-47D, CAMA1, MCF-7, Caov-3, Caov-4, CHO-MUC1, A-375, CHO-WT cells

- [Aberrant expression of MUC1 mucin in ductal hyperplasia and ductal carcinoma In situ of the breast.](#)

Mommers EC, Leonhart AM, von Mensdorff-Pouilly S, Schol DJ, Hilgers J, Meijer CJ, Baak JP, van Diest PJ.

International Journal of Cancer 1999 Oct; 84(5):466.

- ['Epitope fingerprinting' using overlapping 20-mer peptides of the MUC1 tandem repeat sequence.](#)

Schol DJ, Meulenbroek MF, Snijdwint FG, von Mensdorff-Pouilly S, Verstraeten RA, Murakami F, Kenemans P, Hilgers J.

Tumour Biology 1998 Jan; 19 Suppl 1:35.

Disease

- [Adenocarcinoma](#)
- [Asthma](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Carcinoma](#)
- [Chronic Disease](#)
- [Disease Susceptibility](#)
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- [Genetic Predisposition to Disease](#)
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