

# Product Datasheet

## MUC1 Antibody (Mc5) NBP3-21450-0.2mg

Unit Size: 0.2 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP3-21450-0.2mg**

MUC1 Antibody (Mc5)

Product Information	
Unit Size	0.2 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	Mc5
Preservative	0.02% Proclin
Isotype	IgG2a Kappa
Purity	Protein A purified
Buffer	PBS

Product Description	
Host	Mouse
Gene ID	4582
Gene Symbol	MUC1
Species	Human
Specificity/Sensitivity	This antibody is specific for the amino acid sequence DTRPAP of MUC1.
Immunogen	Human breast epithelial mucin

Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot, ELISA, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunoprecipitation
Application Notes	In an attempt to develop a reliable way to detect breast cancer, immunoprecipitation was performed on NPGP from HMFG using the mouse version of this antibody bound to Sepharose 4B. Furthermore, this antibody was tested in an radioimmunity experiment on NPGP using the mouse version of this antibody (Ceriani et al, 1992; pmid:1377884). The epitope of this antibody was mapped by ELISA using small peptides - the murine version of this antibody was used (Petrakou et al, 1998 ; pmid:9422085). This antibody was used to identify cells expressing the MUC1 protein. This was accomplished by using the mouse version of this antibody on cell lysates of cell transfected with the MUC1 protein in a western blot analysis (Rubinstein et al, 2006; pmid:17145869). To compare the diagnostic usefulness of different antibodies, the mouse version of this antibody was used for immunohistochemistry on cell pellets from pleural fluid specimens (Creaney et al, 2008; pmid:18454162). While developing an antibody against the alpha/beta junction of MUC1 the mouse version of this antibody was used for western blot on the MUC1 protein (Rubinstein et al, 2008; pmid:18821582). While assessing a panel of 56 anti MUC1 antibodies for their ability to detect cancer the mouse version of this antibody was used for an immunoradiometric assay on a serum made from sera from 10 different patients with breast, ovarian or colon cancer (Norum et al, 1998; pmid:9422099). To more accurately determine the epitope of this antibody, an ELISA was performed using the murine version of this antibody on different small peptides from the MUC1 protein (Karsten et al, 2004; pmid:15115750).





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### Products Related to NBP3-21450-0.2mg

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
H00004582-Q01-10ug	Recombinant Human MUC1 GST (N-Term) Protein

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### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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