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## **MUC1** Polyclonal Antibody

Catalog Number PA5-25939 Product data sheet

Details	
Size	400 μL
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Туре	Antibody
Immunogen	KLH conjugated synthetic peptide between 1202-1231 amino acids from human MUC1
Conjugate	Unconjugated
Form	Liquid
Concentration	Lot-specific
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles

Species Reactivity	
Species reactivity	Human
Published species	Not Applicable
Tested Applications	Dilution *
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Western Blot (WB)	1:1,000

<sup>\*</sup> Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

## Background/Target Information

MUC1 (Mucin 1, Episialin, MAM-6, CA 15-3, PEM and EMA) is a large cell surface mucin glycoprotein expressed by most glandular and ductal epithelial cells and some hematopoietic cell lineages. MUC1 is a transmembrane glycoprotein with a large mucin-like extracellular domain that matures through several intermediate forms generated by proteolysis, and sequential addition and processing of numerous O-linked glycans that are heavily sialylated. MUC1 is highly polymorphic and each allele encodes a product that contains a different number of repeats (between 30 and 90) leading to large differences in molecular weight of the protein. MUC1 is expressed on most secretory epithelium, including mammary gland and some hematopoietic cells, and is expressed abundantly in \$90\% breast carcinomas and metastases. Transgenic MUC1 has been shown to associate with all four cebB receptors and localize with erbB1 (EGFR) in lactating glands. The MUC1 gene contains seven exons and produces several different alternatively spliced variants. Overexpression, aberrant intracellular localization, and changes in glycosylation of the MUC1 protein have been associated with carcinomas. Multiple alternatively spliced transcript variants that encode different isoforms of the MUC1 gene have been reported, but the full-length nature of only some has been determined. Transgenic MUC-1 has been shown to associate with all four cebB receptors and localize with erbB1 (EGFR) in lactating glands.

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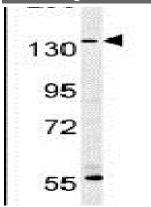
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## Product Images For MUC1 Polyclonal Antibody



## MUC1 Antibody (PA5-25939) in WB

Western blot analysis using a MUC1 polyclonal antibody (Product # PA5-25939) in MDA-MB435 cell lysates (35 μg per lane).

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