

# Glycodelin (C-15): sc-12291

## BACKGROUND

Glycodelin (also designated GD, placental protein 14, PP14, Progesterone-associated endometrial protein, progestagen-associated endometrial protein, pregnancy-associated endometrial  $\alpha$ 2 globulin, PAEG, or PEG) is a glycoprotein with structural homology to  $\beta$ -lactoglobulins. Glycodelin is synthesized by the secretory endometrium and decidua during embryo implantation and in the first few weeks of pregnancy. Glycodelin is expressed in steroid responsive tissues of the female reproductive tract and in the paranuclear vacuole, characteristically present in lobular breast cancer cells, contains abundant amounts of Glycodelin. Glycodelin expression in breast cancer cells is accompanied by the acquisition of a phenotype of organized glandular epithelium.

## REFERENCES

1. Bell, S.C., Keyte, J.W. and Waites, G.T. 1987. Pregnancy-associated endometrial  $\alpha$ 2 globulin, the major secretory protein of the luteal phase and first trimester pregnancy endometrium, is not glycosylated Prolactin but related to  $\beta$ -lactoglobulins. *J. Clin. Endocrinol. Metab.* 65: 1067-1071.
2. Huhtala, M.L., Seppala, M., Narvanen, A., Palomaki, P., Julkunen, M. and Bohn, H. 1987. Amino acid sequence homology between human placental protein 14 and  $\beta$ -lactoglobulins from various species. *Endocrinology* 120: 2620-2622.

## CHROMOSOMAL LOCATION

Genetic locus: PAEP (human) mapping to 9q34.3.

## SOURCE

Glycodelin (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Glycodelin of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-12291 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Glycodelin (C-15) is recommended for detection of Glycodelin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

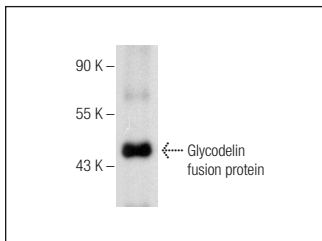
Suitable for use as control antibody for Glycodelin siRNA (h): sc-43807, Glycodelin shRNA Plasmid (h): sc-43807-SH and Glycodelin shRNA (h) Lentiviral Particles: sc-43807-V.

Molecular Weight of Glycodelin: 28 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



Glycodelin (C-15): sc-12291. Western blot analysis of human recombinant Glycodelin fusion protein.

## SELECT PRODUCT CITATIONS

1. Scholz, C., Rampf, E., Toth, B., Brunnhuber, R., Weissenbacher, T., Friese, K. and Jeschke, U. 2009. Ovarian cancer-derived glycodelin impairs *in vitro* dendritic cell maturation. *J. Immunother.* 32: 492-497.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **Glycodelin (001-16-1): sc-80479**, our highly recommended monoclonal alternative to Glycodelin (C-15).