

MUC16 Antibody



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	200-270	Rabbit	#Q8WXI7	94025

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody

Specificity/Sensitivity

MUC16 antibody recognizes endogenous levels of total MUC16 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser12185 of human MUC16 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Mucins are a family of macromolecules that line and protect the respiratory epithelium from microbes and pollutants in the local environment. Of the family members that are known to date, some are produced in a cell type and tissue-specific manner, suggesting distinct biological roles for members. Some members polymerize after secretion to form gel-like substances that coat the epithelial layer (1). MUC16 is a member of the mucin family, which are high molecular weight, O-glycosylated proteins that play an important role in forming mucous barriers (2) and are found on the apical surface of the epithelia. It contains an extracellular domain at its amino acid terminus, a large tandem repeat, and a transmembrane domain with a short cytoplasmic domain. MUC16 has been linked to lung cancer (3) and ovarian cancer (4). It provides protective, lubricating barriers against particles and infectious agents at mucosal surfaces (5).

Background References

1. Ma, J. et al. (2018) *Chest* 154, 169-176.
2. Argüeso, P. et al. (2003) *Invest Ophthalmol Vis Sci* 44, 2487-95.
3. Kanwal, M. et al. (2018) *Oncotarget* 9, 12226-12239.
4. Williams, K.A. et al. (2014) *PLoS One* 9, e88334.
5. Gilowska, I. (2014) *Postepy Hig Med Dosw (Online)* 68, 842-50.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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