**Product datasheet**

**Anti-MUC16 antibody ab133419**

**Overview**

Product name: Anti-MUC16 antibody  
Description: Rabbit polyclonal to MUC16  
Host species: Rabbit  
Tested applications: Suitable for: ELISA, IHC-P, ICC/IF  
Species reactivity: Reacts with: Human  
Immunogen: Synthetic peptide from internal sequence amino acids of Human MUC16.  
Positive control: Human uterus, endometrium tissue; HepG2 cells.

**Properties**

Form: Liquid  
Storage buffer: pH: 7.40  
Preservative: 0.02% Sodium azide  
Constituents: 49% PBS, 0.88% Sodium chloride, 50% Glycerol  
PBS (without Mg^{2+}, Ca^{2+})  
Purity: Immunogen affinity purified  
Clonality: Polyclonal  
Isotype: IgG

**Applications**

Our Abpromise guarantee covers the use of ab133419 in the following tested applications.  
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ELISA</td>
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<td>1/20000.</td>
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<tr>
<td>Application</td>
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<td>IHC-P</td>
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<td>Use a concentration of 10 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.</td>
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<td>ICC/IF</td>
<td>1/100 - 1/500.</td>
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**Target**

**Function**

Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces.

**Tissue specificity**

Expressed in corneal and conjunctival epithelia (at protein level). Overexpressed in ovarian carcinomas and ovarian low malignant potential (LMP) tumors as compared to the expression in normal ovarian tissue and ovarian adenomas.

**Sequence similarities**

Contains 2 ANK repeats.
Contains 56 SEA domains.

**Domain**

Composed of three domains, a Ser-, Thr-rich N-terminal domain, a repeated domain containing more than 60 partially conserved tandem repeats of 156 amino acids each (AAs 12061-21862) and a C-terminal transmembrane contain domain with a short cytoplasmic tail.

**Post-translational modifications**

Heavily O-glycosylated; expresses both type 1 and type 2 core glycans.
Heavily N-glycosylated; expresses primarily high mannose and complex bisecting type N-linked glycans.
May be phosphorylated. Phosphorylation of the intracellular C-terminal domain may induce proteolytic cleavage and the liberation of the extracellular domain into the extracellular space.
May contain numerous disulfide bridges. Association of several molecules of the secreted form may occur through interchain disulfide bridges providing an extraordinarily large gel-like matrix in the extracellular space or in the lumen of secretory ducts.

**Cellular localization**

Cell membrane. Secreted > extracellular space. May be liberated into the extracellular space following the phosphorylation of the intracellular C-terminus which induces the proteolytic cleavage and liberation of the extracellular domain.

**Images**

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human uterus, endometrium tissue labelling MUC16 with ab133419 antibody at 5µg/ml, followed by biotinylated secondary antibody, alkaline phosphatase-streptavidin and chromogen.
Immunofluorescent analysis of HepG2 cells labelling MUC16 with ab133419 at 1/100 dilution. The image on the right is treated with the synthesized peptide.

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