

# CPTC-MUC16-3 (CAB080361)

**Uniprot ID:** Q8WXI7

**Protein name:** MUC16\_HUMAN

**Full name:** Mucin-16

**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.

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

**Subcellular location:**

Cell membrane (Topo: Single-pass type I membrane protein)

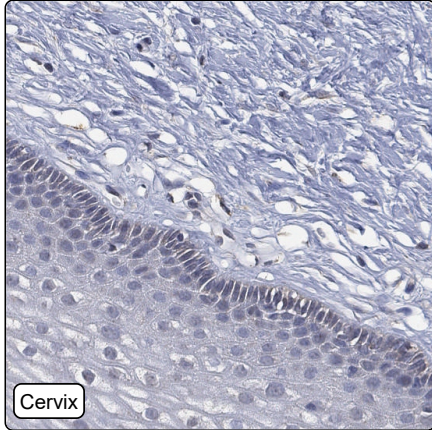
Secreted > Extracellular space

**NOTE:** 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.

**Protein existence:** Experimental evidence at protein level

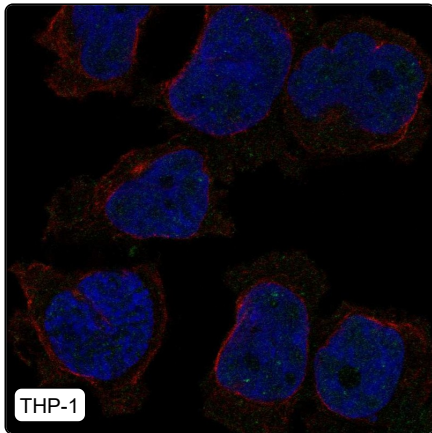
**Comment:**

## Immunohistochemistry



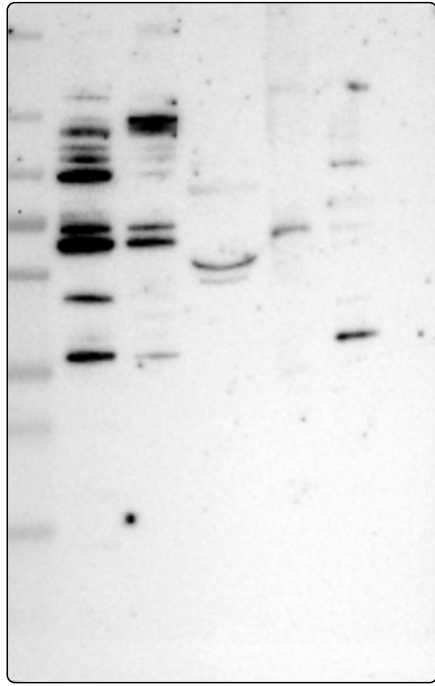
<b>IHC protocol:</b>	HIER pH6, Dilution 1:300
<b>IHC test staining:</b>	Cytoplasmic staining in subset of immune cells.
<b>Literature conformance:</b>	Not consistent with gene/protein characterization data
<b>Literature significance:</b>	
<b>RNA similarity:</b>	Very low consistency between antibody staining and RNA expression data
<b>RNA tissue specificity:</b>	Group enriched (adipose tissue,cervix,fallopian tube,salivary gland)
<b>RNA tissue distribution:</b>	Detected in some
<b>IHC Sibling similarity:</b>	Other antibody shows dissimilar IHC staining pattern

## Immunofluorescence



<b>IF Overlay:</b>	antibody (green), anti-tubulin (red) and DAPI (blue)
<b>IF main location:</b>	
<b>IF additional location:</b>	
<b>IF approved for publication on HPA:</b>	No
<b>IF in THP-1:</b>	Negative

# Western blot



<b>WB Size markers (kDa):</b>	250, 130, 100, 70, 55, 35, 25, 15, 10
<b>WB Lanes:</b>	Marker (1), RT-4 (2), U-251MG (3), Plasma (4), Liver (5), Tonsil (6)
<b>WB Target weight (kDa):</b>	148, 1519
<b>WB Validation:</b>	Supported (Band of predicted size in kDa (+/-20%) with additional bands present.)