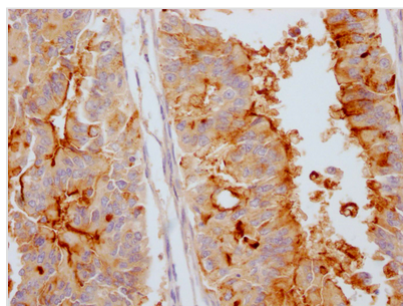




# MUC16/CA125 Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA973154A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	Q8WXI7
<b>Immunogen</b>	A synthesized peptide derived from human CA-125 (MUC16)
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
<b>Relevance</b>	Thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cancer; Tags & Cell Markers; Signal transduction
<b>Gene Names</b>	MUC16
<b>Clone No.</b>	10F10

## Image



IHC image of CSB-RA973154A0HU diluted at 1:100 and staining in paraffin-embedded human endometrial cancer performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

## Description

CUSABIO conducted an immunization study using a human MUC16/CA125-derived peptide to stimulate an immune response in a rabbit. Splenocytes were isolated from the immunized rabbit and RNA was extracted. The RNA was reverse transcribed into cDNA, which served as a template for amplifying the MUC16/CA125 antibody gene using degenerate primers. The amplified gene fragments were then cloned into an expression vector and transfected into a



host system for antibody production. The MUC16/CA125 recombinant monoclonal antibodies were purified from the cell culture supernatant using affinity chromatography. Validation experiments, including ELISA and IHC applications, confirmed the specific binding specificity and affinity of the recombinant MUC16/CA125 monoclonal antibody towards the human MUC16/CA125 protein.