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Product datasheet for TA816531S

MUC16 Mouse Monoclonal Antibody [Clone ID: OTI21F9]

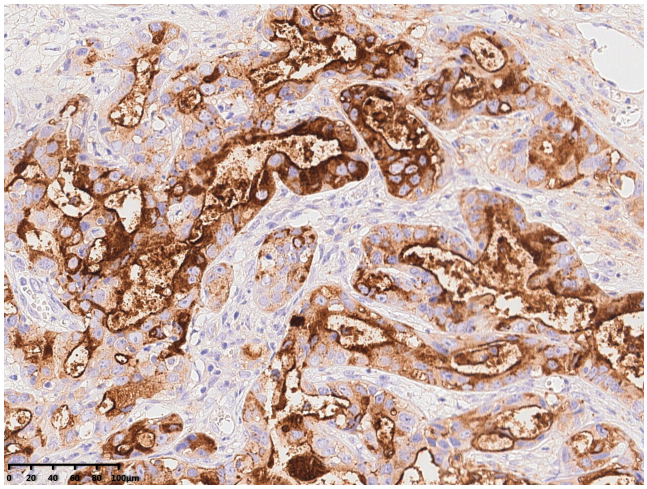
Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI21F9
Applications:	ELISA (indirect), IHC
Recommended Dilution:	IHC 1:8000
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment of Human MUC16 (NM_024690) produced in Ecoli.
Formulation:	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or cell culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Shipped at -20°C or with ice packs, Upon delivery store at -20°C. Dilute in PBS(pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	17.2 kDa
Gene Name:	mucin 16, cell surface associated
Database Link:	Entrez Gene 94025 Human Q8WXI7

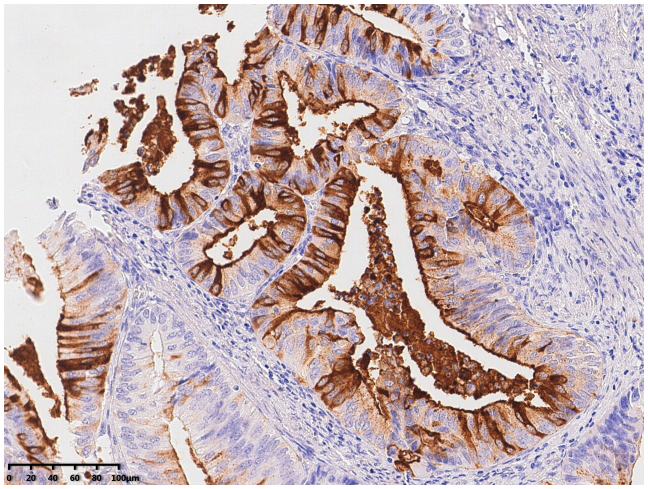
Background:

This gene encodes a protein that is a member of the mucin family. Mucins are high molecular weight, O-glycosylated proteins that play an important role in forming a protective mucous barrier, and are found on the apical surfaces of the epithelia. The encoded protein is a membrane-tethered mucin that contains an extracellular domain at its amino terminus, a large tandem repeat domain, and a transmembrane domain with a short cytoplasmic domain. The amino terminus is highly glycosylated, while the repeat region contains 156 amino acid repeats unit that are rich in serines, threonines, and prolines. Interspersed within the repeats are Sea urchin sperm protein Enterokinase and Agrin (SEA) modules, leucine-rich repeats and ankyrin (ANK) repeats. These regions together form the ectodomain, and there is a potential cleavage site found near an SEA module close to the transmembrane domain. This protein is thought to play a role in forming a barrier, protecting epithelial cells from pathogens. Products of this gene have been used as a marker for different cancers, with higher expression levels associated with poorer outcomes. [provided by RefSeq, May 2017]

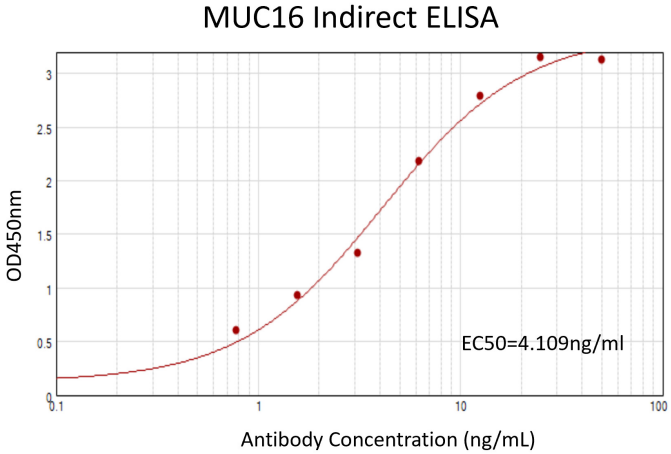
Product images:



Immunohistochemical staining of paraffin-embedded ovary adenocarcinoma using anti-CA125 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH9.0) at 120°C for 3 min, [TA816531])



Immunohistochemical staining of paraffin-embedded Endometrium adenocarcinoma using anti-CA125 mouse monoclonal antibody.(Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH9.0) at 120°C for 3 min, [TA816531])



Recombinant Hu MUC16 Protein ([TP762406]) 100ng/mL was coated on plate and incubated at 4°C for overnight. After blocking with 1%BSA, 2x serially diluted primary antibody [TA816531] (0.78 to 50ng/mL) and 10000x diluted HRP conjugated goat anti-mouse IgG were used for detection. Signal/Background ratio=55.32, EC50=4.109ng/ml