

Anti-CA125/MUC16 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

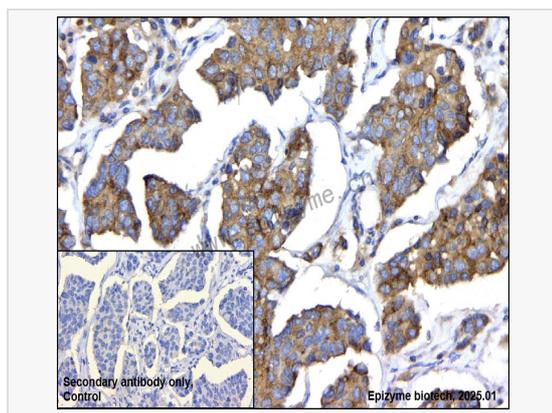
Catalog # R014809

Product Information

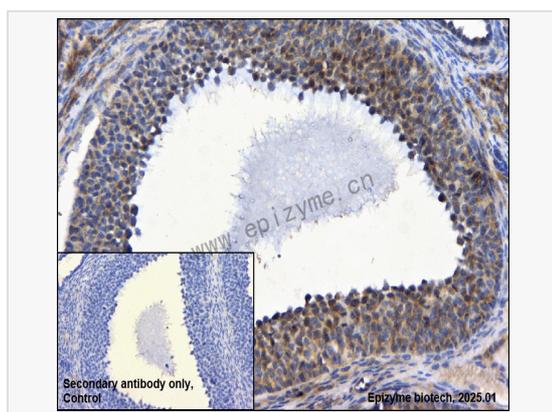
Application	WB, IHC-P/IF (Tissue-P), ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	29K52H05
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human CA-125 (MUC16)
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-CA125/MUC16 Rabbit mAb [29K52H05] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

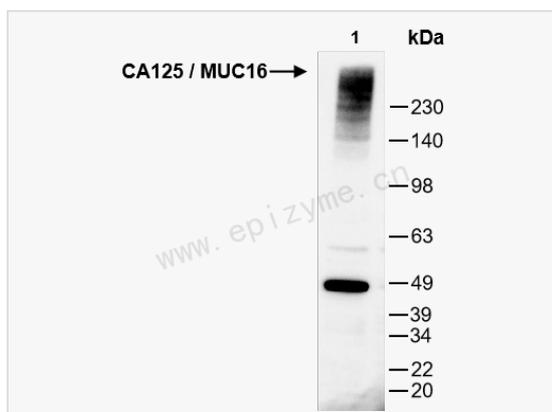
Synonyms	CA 125, CA-125, CA125, CA125 ovarian cancer antigen, Cancer antigen 125, FLJ14303, MUC 16, MUC-16, MUC16, MUC16_HUMAN, Mucin 16, Mucin 16 cell surface associated, Mucin-16, Mucin16, Ovarian cancer related tumor marker CA125, Ovarian cancer-related tumor marker CA125, Ovarian carcinoma antigen CA125.
Calculated MW	Calculated MW: 1519 kDa; Observed MW: 1519 kDa
Uniprot ID	Q8WXI7
Gene ID	94025
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]
Cellular Location	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.



Immunohistochemistry - Anti-CA125/MUC16 Rabbit mAb [29K52H05]
 Sample: Paraformaldehyde-fixed, paraffin embedded human ovarian cancer tissue
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
 Primary antibody: R014809 at 1:200 dilution
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
 DAB was used as the chromogen.
 Counter stained with hematoxylin.
 Positive/negative staining were presented.
 Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-CA125/MUC16 Rabbit mAb [29K52H05]
 Sample: Paraformaldehyde-fixed, paraffin embedded mouse ovary tissue
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
 Primary antibody: R014809 at 1:200 dilution
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
 DAB was used as the chromogen.
 Counter stained with hematoxylin.
 Positive/negative staining were presented.
 Only the secondary antibody was used as the negative control.



Western Blot - Anti-CA125/MUC16 Rabbit mAb [29K52H05]
 All lanes: R014809 at 1:1,000 dilution
 Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
 Lysates/proteins at 10 µg per lane.
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
 Predicted band size: 1519 kDa
 Observed band size: 1519 kDa
 Developed using the ECL technique (Cat. No. SQ201).