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# MUC4 (ABT174R) Rabbit mAb (Ready to Use)

CatalogNo: YM7269R Recombinant R

# Key Features

Host Species <ul> <li>Rabbit</li> </ul>	Reactivity • Human	Applications <ul> <li>IHC</li> </ul>
Isotype		

IgG1,Kappa

#### **Recommended Dilution Ratios**

**Ready to use for IHC** 

### **Storage**

**Storage\*** 2°C to 8°C/1 year

### **Basic Information**

Clonality	Monoclonal

**Clone Number** ABT174R

#### Immunogen Information

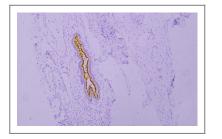
Immunogen	Synthesized peptide derived from human MUC4
Specificity	This antibody detects endogenous levels of MUC4 at Human

#### **Target Information**

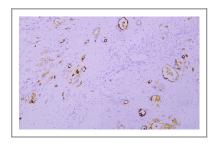
Gene name MUC4

	Organism	Gene ID	UniProt ID		
	Human	<u>3662;</u>	<u>Q99102;</u>		
Cellular Localization	[Mucin-4 beta chain]: Cell membrane ; Single-pass membrane protein . Isoforms lacking the Cys-rich region, EGF-like domains and transmembrane region are secreted. Secretion occurs by splicing or proteolytic processing; [Mucin-4 alpha chain]: Cell membrane . Secreted . Forms a complex with Mucin-4 beta chain at the cell membrane; [Isoform 3]: Cell membrane ; Single-pass membrane protein .; [Isoform 11]: Secreted .; [Isoform 17]: Cell membrane ; Single-pass membrane protein .				
Tissue specificity	Expressed in the thymus, thyroid, colon, testis, prostate, ovary, uter Expressed in carcinomas arising fr squamous cell carcinomas of the u tract, colon, and cervix cancers. M chronic pancreatitis, but is highly lines.	us, placenta, and mammary om some of these epithelia pper aerodigestive tract, m inimally or not expressed in	y and salivary glands. a, such as lung cancers, nammary carcinomas, biliary n the normal pancreas or		
Function	Alternative products:Additional iso primitive gut before respiratory ar cell specificity. Expressed at the b and then predominantly localized the cytoplasm of the mucous colu- then disappears late in gestation., promote tumor growth may be ma proliferation. Has anti-adhesive pr anti-adhesive effects on cell-cell a to act as an intramembrane ligand and differentiation of epithelial cel MUC4-ERBB2 complex causes site polarized epithelial cells segragat from acting as a coreceptor. The in CDKN1B. The formation of a MUC4 of CDKN1B, resulting in repression proliferation.,miscellaneous:Expre- patients with invasive ductal carci type (IDC,ICC-MF). Patients with ID survival rate than those with low N glycosylated.,PTM:mucin-4 beta cl cleaved into 2 chains, mucin-4 alp be derived from an intron translat domain.,similarity:Contains 1 NID0 domain.,similarity:Contains 2 EGF- Cys-rich region, EGF-like domains occurs by splicing or proteolytic pr a mucin-4 alpha chain and a cyste beta chain interacts with ERBB2 v with ERBB2 and ERBB3.,tissue spe esophagus, stomach, small intesti mammary and salivary glands. Ex epithelia, such as lung cancers, so mammary carcinomas, biliary trac the normal pancreas or chronic pa and pancreatic tumor cell lines.,	d digestive epithelial cells asal surface of the epithelia n only parietal cells. Immer- nnar epithelial cells. In the Function:May play a role in inly due to repression of ap operties. Seems to alter cel- nd cell-extracellular matrix for ERBB2. Plays an impor- ls by inducing specific phos- specific phosphorylation of es ERBB2 and other ERBB r theraction with ERBB2 leads -ERBB2-ERBB3-NRG1 comp- of apoptosis and stimulation for is a very useful predict on and intrahepatic choil C or ICC-MF who have high IUC4 expression.,PTM:Muci- nain is predominantly N-gly- ha chain and mucin-4 beta on.,similarity:Contains 1 AP 0 domain.,similarity:Contair like domains.,subcellular lo and transmembrane region ocessing.,subunit:A hetero- ine-rich transmembrane mi- a the EGF-like domain 1. In cificity:Expressed in the thy- ne, colon, testis, prostate, co- pressed in carcinomas arisi uamous cell carcinomas of t, colon, and cervix cancers	have acquired their tissue and um from week 14 to 26 weeks diately before birth, found in embryo expressed in skin, tumor progression. Ability to poptosis as opposed to Ilular behavior through both interactions and in its ability tant role in cell proliferation sphorylation of ERBB2. The f the ERBB2 'Tyr-1248'. In receptors and prevents ERBB2 s to enhanced expression of olex leads to down-regulation on of ctor of poor prognosis in langiocarcinoma, mass forming n MUC4 expression had a worse in-4 alpha chain is highly O- cosylated.,PTM:Proteolytically chain.,sequence Caution:May MOP ns 1 VWFD ocation:Isoforms lacking the n are secreted. Secretion dimeric complex, composed of ucin-4 beta chain. Mucin-4 n nonpolarized cells, associates ymus, thyroid, lung, trachea, ovary, uterus, placenta, and ing from some of these the upper aerodigestive tract, s. Minimally or not expressed in		

# Validation Data



Immunohistochemical analysis of paraffin-embedded human Cervical squamous carcinoma. 1, Antibody was incubated at 4° overnight. 2, Citrate buffer of pH6.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded human Pancreatic carcinoma. 1, Antibody was incubated at 4° overnight. 2, Citrate buffer of pH6.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 30min).

# Contact information

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Please scan the QR code to access additional product information: **MUC4 (ABT174R) Rabbit mAb (Ready** to Use)

For Research Use Only. Not for Use in Diagnostic Procedures.

Antibody | ELISA Kits | Protein | Reagents