



# Anti-MUC12 (aa 5248-5367) polyclonal antibody (DPABH-20096)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Antigen Description

Human MUC12 (Mucin 12) is a novel mucin of epithelial mucins, which are large, secreted or cell surface glycoproteins involved in epithelial cell protection, adhesion modulation, and signaling. Using differential display on RNA from paired normal colonic mucosa and primary colorectal tumor, MUC12 is identified as one of the 2 partial cDNAs representing novel mucin genes as well as MUC11. They are downregulated in colorectal tumors. The deduced MUC12 protein contains a predicted transmembrane domain, 2 extracellular cysteine-rich EGF-like domains, a coiled-coil region, and a domain consisting of serine-, threonine-, and proline-rich degenerate tandem repeats of 28 amino acids, a structural feature typical of mucins. Human MUC12 shares high sequence homology with MUC3 and MUC4. Northern blot analysis of 50 different normal tissues detected MUC12 expression in colon, pancreas, prostate, and uterus, with highest expression in colon. The MUC12 transcript is large, estimated to be longer than 12 kb. Expression of MUC12 was downregulated or absent in 6 of 15 (40%) colorectal tumors, as compared with matched normal colonic tissues. MUC12 expression was not detected in any of 6 colorectal cancer cell lines examined.

<b>Immunogen</b>	antigen sequence, corresponding to amino acids 5248-5367 of Human MUC12 (Q9UKN1)
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Immunogen affinity purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-P
<b>Format</b>	Liquid

<b>Size</b>	100 µl
<b>Buffer</b>	pH: 7.20; Constituents: 59% PBS, 40% Glycerol
<b>Preservative</b>	0.02% Sodium Azide
<b>Storage</b>	Store at 4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MUC12 mucin 13, cell surface associated [ Homo sapiens ]</a>
<b>Official Symbol</b>	MUC12
<b>Synonyms</b>	MUC12; mucin 12, cell surface associated; MUC11; MUC-11; MUC-12; mucin-12; mucin 11; mucin-11;
<b>Entrez Gene ID</b>	<a href="#">10071</a>
<b>Protein Refseq</b>	<a href="#">NP_001157934.1</a>
<b>UniProt ID</b>	<a href="#">Q9UKN1</a>
<b>Pathway</b>	Metabolism of proteins; O-linked glycosylation of mucins; Termination of O-glycan biosynthesis.
<b>Function</b>	molecular_function;