多肽 N-乙酰氨基半乳糖转移酶 12 抗体

产品货号 ： mlR13272

英文名称 ： GALNT12

中文名称 ： 多肽 N-乙酰氨基半乳糖转移酶 12 抗体

别　　名 ： CRCS1; FLJ21212; GalNAc T12; GalNAc-T12; GalNAcT12; GALNT 12; Galnt12; GLT12_HUMAN; Polypeptide GalNAc transferase 12; Polypeptide N acetylgalactosaminyltransferase 12; Polypeptide N-acetylgalactosaminyltransferase 12; pp GaNTase 12; pp-GaNTase 12; Protein UDP acetylgalactosaminyltransferase 12; Protein-UDP acetylgalactosaminyltransferase 12; UDP GalNAc polypeptide N acetylgalactosaminyltransferase 12; UDP GalNAc polypeptide N acetylgalactosaminyltransferase; UDP N acetyl alpha D galactosamine polypeptide N acetylgalactosaminyltransferase 12; UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 12.

研究领域 ： 细胞生物　细胞类型标志物

抗体来源 ： Rabbit

克隆类型 ： Polyclonal

交叉反应 ： Human, Mouse, Rat, Chicken, Dog, Pig, Horse, Rabbit,

产品应用 ： WB=1:500-2000 ELISA=1:500-1000
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

分 子 量 ： 67kDa

细胞定位 ： 细胞浆 细胞膜

性　　状 ： Lyophilized or Liquid

浓　　度：　1mg/ml

免 疫 原：　KLH conjugated synthetic peptide derived from human GALNT12/GalNAc-T12:321-420/581

亚　　型：　IgG

纯化方法：　affinity purified by Protein A

储 存 液：　0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件：　Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed :　PubMed

产品介绍 ：　　　　The UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase (GalNAc-T) family of enzymes are substrate-specific proteins that catalyze the transfer of GalNAc (N-acetylgalactosamine) to serine and threonine residues onto various proteins, thereby initiating mucin-type O-linked glycosylation in the Golgi apparatus. GalNAc-T12 (Polypeptide N-acetylgalactosaminyltransferase 12), also known as UDP-GalNAc:polypeptide N-acetylgalactosaminyltransferase 12, is a 581 amino acid protein that displays enzymatic activity towards non-glycosylated peptides such as Muc5Ac, Muc1a and EA2 with no detectable activity towards Muc2 and Muc7. The N-terminal domain is involved in substrate binding and manganese coordination, while the C-terminal domain is involved in UDP-Gal binding and catalytic reaction. Since GalNAc-T12 is highly expressed in stomach, pancreas, small intestine and colon, it may play a significant role in the initial step of mucin-type oligosaccharide biosynthesis in digestive organs.

Function:

Catalyzes the initial reaction in O-linked oligosaccharide biosynthesis, the transfer of an N-acetyl-D-galactosamine residue to a serine or threonine residue on the protein receptor. Has activity toward non-glycosylated peptides such as Muc5AC, Muc1a and EA2, and no detectable activity with Muc2 and Muc7. Displays enzymatic activity toward the Gal-NAc-Muc5AC glycopeptide, but no detectable activity to mono-GalNAc-glycosylated Muc1a, Muc2, Muc7 and EA2. May play an important role in the initial step of mucin-type oligosaccharide biosynthesis in digestive organs.

Subcellular Location:

Golgi apparatus membrane.

Tissue Specificity:

Widely expressed at different levels of expression. Highly expressed in digestive organs such as small intestine, stomach, pancreas and colon. Expressed at intermediate level in testis, thyroid gland and spleen. Weakly expressed in whole brain, cerebral cortex, cerebellum, fetal brain, bone marrow, thymus, leukocytes, heart, skeletal muscle, liver, lung, esophagus, kidney, adrenal gland, mammary gland, uterus, placenta, ovary and prostate.

DISEASE:

Defects in GALNT12 are a cause of susceptibility to colorectal cancer type 1 (CRCS1) [MIM:608812]. Colorectal cancer is a malignancy originating either in the colon or rectum or both.

Similarity:

Belongs to the glycosyltransferase 2 family. GalNAc-T subfamily.

Contains 1 ricin B-type lectin domain.

SWISS:

Q8IXK2

Gene ID:

79695

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

产品图片