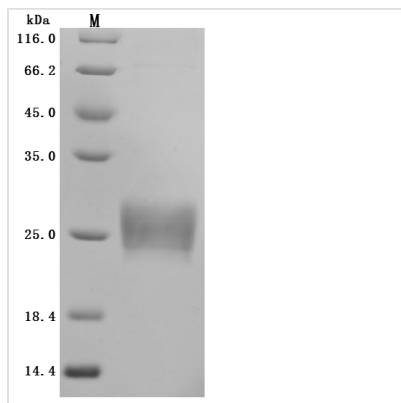


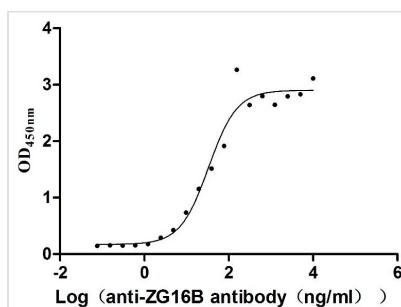


Recombinant Human Pancreatic adenocarcinoma up-regulated factor (ZG16B) (Active)

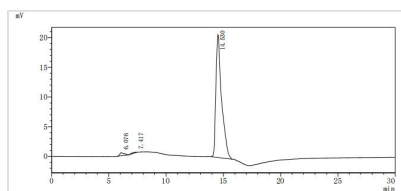
Product Code	CSB-MP836195HU
Abbreviation	Recombinant Human ZG16B protein (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q96DA0
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human ZG16B at 2 µg/mL can bind Anti-ZG16B recombinant antibody (CSB-RA836195MA1HU), the EC ₅₀ is 24.13-46.04 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE. Greater than 95% as determined by SEC-HPLC.
Sequence	GKMYGPGGGKYFSTTEDYDHEITGLRVSVGLLLVKSQVVKLGDSWDVKLGAL GGNTQEVTLQPGYITKVFVAFQAFLRGMVMYTSKDRYFYFGKLDGQISSAYP SQEGQVLVGIYGQYQLLGIKSIGFEWNYPLEEPTTEPPVNLTYSANSPVGR
Source	Mammalian cell
Target Names	ZG16B
Expression Region	53-208aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	20.0 kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity
Measured by its binding ability in a functional ELISA. Immobilized Human ZG16B at 2 µg/ml can bind Anti-ZG16B recombinant antibody (CSB-RA836195MA1HU), the EC₅₀ is 24.13-46.04 ng/mL.



The purity of ZG16B was greater than 95% as determined by SEC-HPLC

Description

This Human ZG16B recombinant protein was produced in mammalian cell, where the gene sequence encoding Human ZG16B (53-208aa) was expressed with the C-terminal 10xHis tag. The purity of this ZG16B protein was greater than 95% by SDS-PAGE. The activity was validated in functional ELISA.

ZG16B was first found to be highly expressed in pancreatic cancer and plays an important role in carcinogenesis, and was named as pancreatic cancer-related up-regulator PAUF. The latest research results show that ZG16B plays its role as an oncogene by up-regulating the expression and transcriptional activity of β -catenin in pancreatic cancer. At the same time, other studies have also found that ZG16B is not only highly expressed in pancreatic cancer, but also in colon cancer. It is also highly expressed in ovarian cancer, gastric cancer and other cancer tissues. Furthermore, ZG16B plays an important role in cancer progression such as cell proliferation, adhesion, migration, and invasion. However, in colon cancer, whether ZG16B plays a role in cancer by upregulating the expression and transcriptional activity of β -catenin and activating the Wnt/ β -catenin signaling pathway is still unknown. As a novel activator of human endothelial cells, ZG16B has similar effects to vascular endothelial growth factor (VEGF), which can promote angiogenesis and increase vascular permeability in vitro and in vivo.

**Endotoxin**

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.