Pig Beta-glucuronidase (GUSB) ELISA Kit

Catalog No: #EK11581

Package Size: #EK11581-1 48T #EK11581-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Pig Beta-glucuronidase (GUSB) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Pig (Sus scrofa; Porcine)
Other Names	tcag7.927; BG; FLJ39445; MPS7; beta-D-glucuronidase
Accession No.	Q4FAT7
Uniprot	Q4FAT7
GeneID	100144519;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:62.5-4000 pg/mL

Sensitivity:27.4 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate GUSB in samples. An antibody specific for GUSB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyGUSB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for GUSB is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of GUSB bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Beta-glucuronidase is an enzyme that in humans is encoded by the GUSB gene.Human beta-glucuronidase is synthesized as an 80 kDa monomer (653 amino acids) before proteolysis removes 18 amino acids from the C-terminal end to form a 78 kDa monomer. Biologically, beta-glucuronidase exists as a 332 kDa homotetramer. Beta-glucuronidase contains several notable structural formations, including a type of beta barrel known as a jelly roll barrel and a TIM barrel.

Human beta-glucuronidase is homologous to the Escherichia coli enzyme beta-galactosidase. This homologous relationship, along with the knowledge that glycosidases often perform hydrolysis catalyzed by two acidic residues, enabled the development of a mechanistic hypothesis.

Note: This product is for in vitro research use only