

# Bovine Geranylgeranyl transferase type-1 subunit beta (PGGT1B) ELISA Kit



Catalog No: #EK11467

Orders: order@signalwayantibody.com

Package Size: #EK11467-1 48T #EK11467-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Bovine Geranylgeranyl transferase type-1 subunit beta (PGGT1B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	BGGI; GGTI; GGTase-I-beta geranylgeranyltransferase type 1 beta geranylgeranyltransferase type I beta subunit
Accession No.	Q5EAD5
Uniprot	Q5EAD5
GeneID	509322;
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:9.88-800 pg/mL

Sensitivity:3.88 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 PGGT1B in samples. An antibody specific for PGGT1B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPGGT1B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PGGT1B 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 PGGT1B bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Protein geranylgeranyltransferase type I (GGTase-I) transfers a geranylgeranyl group to the cysteine residue of candidate proteins containing a C-terminal CAAX motif in which 'A' is an aliphatic amino acid and 'X' is leucine . The enzyme is composed of a 48-kD alpha subunit (FNTA) and a 43-kD beta subunit, encoded by the PGGT1B gene. The FNTA gene encodes the alpha subunit for both GGTase-I and the related enzyme farnesyltransferase.

The sequences from both species encode a 377-amino acid polypeptide with a predicted molecular mass of 42.4 kD (human) and 42.5 kD (rat). Amino acid sequence comparisons suggested that the mammalian beta-subunit protein is the counterpart of the Saccharomyces cerevisiae gene CDC43.

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Note: This product is for in vitro research use only