

Sheep Sodium-dependent phosphate transport protein 2A (SLC34A1) ELISA Kit

Catalog No: #EK7275



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Package Size: #EK7275-1 48T #EK7275-2 96T

Description

Product Name	Sheep Sodium-dependent phosphate transport protein 2A (SLC34A1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Sheep (Ovis aries)
Other Names	NAPI-3; NPHLOP1; NPT2; NPTIIa; SLC11; SLC17A2; Na ⁺ -phosphate cotransporter type II renal sodium-dependent phosphate transporter sodium/phosphate co-transporter solute carrier family 17 (sodium phospho
Accession No.	O97704
Uniprot	O97704
GeneID	443505;
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:0.31-20 ng/mL

Sensitivity:0.1 ng/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 SLC34A1 in samples. An antibody specific for SLC34A1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySLC34A1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SLC34A1 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 SLC34A1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:Magagnin et al. (1993) cloned from human kidney cortex a cDNA encoding a renal proximal tubular, brush-border membrane Na(+)-phosphate cotransporter referred to as NaPi3. Hartmann et al. (1996) reported the cloning and characterization of the mouse (Npt2) and human (NPT2) genes. The genes were cloned by screening mouse genomic and human chromosome 5-specific libraries, respectively.Hartmann et al. (1996) determined that the mouse and human NPT2 genes are approximately 16 kb and contain 13 exons Putative CAAT and TATA boxes were located, respectively, at positions -147 and -40 of the Npt2 gene and -143 and -51 of the

NPT2 gene, relative to nucleotide 1 of the corresponding cDNAs. The translation initiation site was within exon 2 of both genes.

Note: This product is for in vitro research use only