

Bovine Mitochondrial-processing peptidase subunit alpha (PMPCA) ELISA Kit

Catalog No: #EK8407

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Package Size: #EK8407-1 48T #EK8407-2 96T

Description

Product Name	Bovine Mitochondrial-processing peptidase subunit alpha (PMPCA) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	RP11-413M3.1; Alpha-MPP; FLJ26258; INPP5E; KIAA0123; MGC104197; inositol polyphosphate-5-phosphatase; 72 kD mitochondrial matrix processing protease; alpha subunit
Accession No.	Q0P5M8
Uniprot	Q0P5M8
GeneID	767847;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.055 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 PMPCA in samples. An antibody specific for PMPCA has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPMPCA present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PMPCA 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 PMPCA bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:By sequencing clones obtained from a size-fractionated KG-1 myeloid leukemia cell line cDNA library, Nagase et al. (1995) cloned PMPCA, which they designated KIAA0123. The deduced 528-amino acid protein contains an insulinase (IDE) motif and shares 85.5% identity with the rat mitochondrial processing protease. Northern blot analysis detected PMPCA expression in all tissues and cell lines examined, with highest expression in HeLa cells, heart, skeletal muscle, and testis.

Hartz (2009) mapped the PMPCA gene to chromosome 9q34.3 based on an alignment of the PMPCA sequence with the genomic sequence (GRCh37). The PMPCA gene overlaps the INPP5E gene and is transcribed in the opposite direction.

Note: This product is for in vitro research use only