

Rat Serine/Threonine-Protein Phosphatase PP1-alpha Catalytic Subunit ELISA Kit | PPP1CA elisa kit

Rat Serine/Threonine-Protein Phosphatase PP1-alpha Catalytic Subunit ELISA Kit

CATALOG # AAA247315	REACTIVITY Rat
-------------------------------	--------------------------

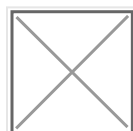
PRODUCT SYNONYMS

Serine/Threonine-Protein Phosphatase PP1-alpha Catalytic Subunit; Rat Serine/Threonine-Protein Phosphatase PP1-alpha Catalytic Subunit ELISA Kit; PPP1CA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of sST2. No significant cross-reactivity or interference between sST2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between sST2 and all the analogues, therefore, cross reaction may still exist in some cases.
Sequence Length	330
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL
Preparation and Storage	Store at 2-8 degree C. The stability of 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.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PPP1CA elisa kit	Intended Uses: This sST2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat sST2. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: sST2 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-sST2 antibody and an sST2-HRP conjugate. The assay sample and buffer are incubated together with sST2-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the sST2 concentration since sST2 from samples and sST2-HRP conjugate compete for the anti-sST2 antibody binding site. Since the number of sites is limited, as more sites are occupied by sST2 from the sample, fewer sites are left to bind sST2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The sST2 concentration in each sample is interpolated from this standard curve.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506003
NCBI GeneID	5499
NCBI Accession #	NP_002699.1
NCBI GenBank Nucleotide #	NM_002708.4
UniProt Accession #	P62136; P08129; P20653; P22802; Q07161; A6NNR3; B2R908
Molecular Weight	38,631 Da
NCBI Official Full Name	serine/threonine-protein phosphatase PP1-alpha catalytic subunit isoform 1
NCBI Official Synonym Full Names	protein phosphatase 1 catalytic subunit alpha
NCBI Official Symbol	PPP1CA
NCBI Official Synonym Symbols	PP1A; PP-1A; PPP1A; PP1alpha
NCBI Protein Information	serine/threonine-protein phosphatase PP1-alpha catalytic subunit
UniProt Protein Name	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit
UniProt Gene Name	PPP1CA
UniProt Synonym Gene Names	PPP1A; PP-1A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.