

Rat Ca (2+) -ATPase ELISA Kit | Ca (2+) -ATPase elisa kit

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CATALOG #
AAA85459

REACTIVITY
Rat

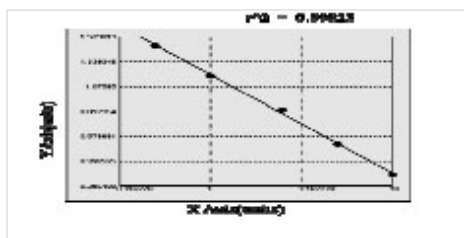
PRODUCT SYNONYMS

Ca (2+) -ATPase; Rat Ca (2+) -ATPase ELISA Kit; Ca (2+) -ATPase elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
Sensitivity	0.1 ng/mL.
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Ca (2+) -ATPase elisa kit

Intended Uses: This Ca²⁺/ATPase ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat Ca²⁺/ATPase. This ELISA kit for research use only!

Principle of the Assay: Ca²⁺/ATPase ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-Ca²⁺/ATPase antibody and an Ca²⁺/ATPase-HRP conjugate. The assay sample and buffer are incubated together with Ca²⁺/ATPase-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 Ca²⁺/ATPase concentration since Ca²⁺/ATPase from samples and Ca²⁺/ATPase-HRP conjugate compete for the anti-Ca²⁺/ATPase antibody binding site. Since the number of sites is limited, as more sites are occupied by Ca²⁺/ATPase from the sample, fewer sites are left to bind Ca²⁺/ATPase-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The Ca²⁺/ATPase concentration in each sample is interpolated from this standard curve.

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.