

## Rat Stathmin (STMN1) ELISA Kit

Catalog No: #EK6695



Package Size: #EK6695-1 48T #EK6695-2 96T

Orders: order@signalwayantibody.com

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## Description

Product Name	Rat Stathmin (STMN1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	RP1-125I3.5; C1orf215; FLJ32206; LAP18; Lag; MGC138869; MGC138870; OP18; PP17; PP19; PR22; SMN; OTTHUMP0000008530 leukemia-associated phosphoprotein p18 metablastin oncoprotein 18 phosphoprotein 19
Accession No.	P13668
Uniprot	P13668
GeneID	29332;
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:0.058 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:**Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate STMN1 in samples. An antibody specific for STMN1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySTMN1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for STMN1 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 STMN1 bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Stathmin 1/oncoprotein 18, also known as STMN1, is a highly conserved 17 kDa protein. Its function as an important regulatory protein of microtubule dynamics has been well characterized. Eukaryotic microtubules are one of three major components of the cells cytoskeleton. They are highly dynamic structures that continuously alternate between assembly and disassembly. Stathmin performs an important function in regulating rapid microtubule remodeling of the cytoskeleton in response to the cells needs. Microtubules are cylindrical polymers of  $\alpha,\beta$ -tubulin. Their assembly is in part determined by the concentration of free tubulin in the cytoplasm.At low concentrations of free tubulin, the growth rate at the microtubule ends is slowed and results in an increased rate of depolymerization (disassembly).

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Note: This product is for in vitro research use only