

## Rat Oncostatin M (OSM) ELISA Kit

Catalog No: #EK11979



Package Size: #EK11979-1 48T #EK11979-2 96T

Orders: order@signalwayantibody.com

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## Description

Product Name	Rat Oncostatin M (OSM) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	MGC20461;
Accession No.	Q65Z15
Uniprot	Q65Z15
GeneID	289747;
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:15.6-1000 pg/mL

Sensitivity:6.5 pg/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 OSM in samples. An antibody specific for OSM has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyOSM present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for OSM 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 OSM bound in the initial step. The color development is stopped and the intensity of the color is measured.

**Product Overview:**Oncostatin M(OSM)?is a cytokine originally isolated from medium conditioned by PMA-treated U-937 histiocytic leukemia cells based on its ability to inhibit growth of A375 melanoma cells. The OSM cDNA encodes a 252 amino acid pre-pro-OSM polypeptide with a 25 residue hydrophobic signal peptide and a hydrophilic C-terminal domain that are proteolytically processed to generate the 196 residue mature form of OSM. Although both mature and pro-OSM are equally active in radio-receptor assays, the mature OSM is 5- to 60-fold more active in growth inhibition assays. Thus, proteolytic processing of the pro-OSM peptide may be important in regulating the in vivo activities of OSM.OSM is a pleiotropic cytokine that initiates its biological activities by binding to specific cell surface receptors.

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Note: This product is for in vitro research use only