

Rat Mothers against decapentaplegic homolog 3 (SMAD3) ELISA Kit

Catalog No: #EK7228

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Package Size: #EK7228-1 48T #EK7228-2 96T

Description

Product Name	Rat Mothers against decapentaplegic homolog 3 (SMAD3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	DKFZp586N0721; DKFZp686J10186; HSPC193; HsT17436; JV15-2; MADH3; MGC60396; MAD; mothers against decapentaplegic homolog 3 SMA- and MAD-related protein 3 SMAD; mothers against DPP homolog 3 mad homol
Accession No.	P84025
Uniprot	P84025
GeneID	25631;
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:0.625-40 ng/mL

Sensitivity:0.224 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 SMAD3 in samples. An antibody specific for SMAD3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySMAD3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SMAD3 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 SMAD3 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**SMAD3 or Mothers against decapentaplegic homolog 3 is a gene which appears in humans on chromosome 15. It is one of several human homologues of a gene which was originally discovered in the fruit fly *Drosophila melanogaster*. The name SMAD3 also refers to a member of the SMAD family of proteins.

SMAD3 or Mothers against decapentaplegic homolog 3 is a polypeptide that, as its name describes, is a homolog of the *Drosophila* protein "Mothers against decapentaplegic". It belongs to the SMAD family of proteins, which belong to the TGFβ superfamily of modulators. Like many other TGFβ

family members, SMAD3 is involved in cell signalling. SMAD3 modulates signals of activin and TGF β 's.

Note: This product is for in vitro research use only