

Human Mothers Against Decapentaplegic Homolog 7 (Smad7) ELISA Kit | Smad7 elisa kit

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CATALOG #
AAA137867

REACTIVITY
Human

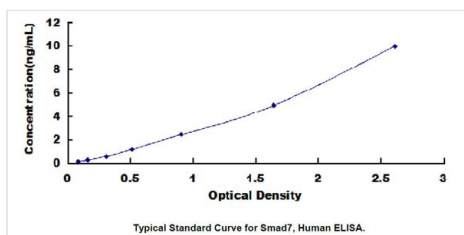
PRODUCT SYNONYMS

Mothers Against Decapentaplegic Homolog 7 (Smad7); Human Mothers Against Decapentaplegic Homolog 7 (Smad7) ELISA Kit; MADH7; MADH8; Mothers against DPP homolog 8; Smad7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Smad7. No significant cross-reactivity or interference between Smad7 and analogues was observed.
Sequence Length	425
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.056ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Smad7 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Smad7 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Smad7 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to Smad7. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to Smad7. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Smad7, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Smad7 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of Smad7 in human tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for Smad7 elisa kit	Developmental science

NCBI AND UNIPROT INFORMATION

NCBI GI #	111154105
NCBI GeneID	17131
NCBI Accession #	NP_001036125.1
NCBI GenBank Nucleotide #	NM_001042660.1
UniProt Accession #	O35253; O88709
Molecular Weight	46,371 Da
NCBI Official Full Name	mothers against decapentaplegic homolog 7
NCBI Official Synonym Full Names	SMAD family member 7
NCBI Official Symbol	Smad7
NCBI Official Synonym Symbols	Madh7
NCBI Protein Information	mothers against decapentaplegic homolog 7
UniProt Protein Name	Mothers against decapentaplegic homolog 7
UniProt Gene Name	Smad7
UniProt Synonym Gene Names	Madh7; Madh8; MAD homolog 7; Mothers against DPP homolog 7; MAD homolog 8; Mothers against DPP homolog 8; SMAD 7; Smad7
UniProt Entry Name	SMAD7_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/mothers-against-decapentaplegic-homolog-7-smad7/137867>