Human Mothers Against Decapentaplegic Homolog 9 (SMAD9) ELISA Kit | SMAD9 elisa kit

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CATALOG #	REACTIVITY
AAA330782	**Human**

PRODUCT SYNONYMS

Mothers Against Decapentaplegic Homolog 9 (SMAD9); Human Mothers Against Decapentaplegic Homolog 9 (SMAD9) ELISA Kit; SMAD9; MADH6; MADH9; SMAD8; SMAD8A; SMAD8B; MAD (mothers against decapentaplegic; Drosophila) homolog 9; MAD; mothers against decapentaplegic homolog 9; Mothers against decapentaplegic; drosophila; homolog o; SMAD9 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Mothers against decapentaplegic homolog 9 (SMAD9) ELISA Kit has high sensitivity and excellent specificity for detection of Human SMAD9. No significant cross-reactivity or interference between Human SMAD9 and analogues was observed.
Sequence Length	467
Assay Type	Sandwich
Samples	Human serum, cell culture supernates and other biological fluids
Detection Range	0.25 ng/ml - 4 ng/ml
Sensitivity	< 0.01ng/ml
Intra-assay Precision	Four samples of known concentration were tested twenty times on one plate to assess intra-assay precision. The CV (%)?9%.
Inter-assay Precision	Three samples of known concentration were tested in twenty separate assays to assess inter-assay precision. Assays were performed by at least three technicians using two lots of components. The CV (%)?11%.
Preparation and Storage	Store at 2-8 degree C.

IMAGES

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SMAD9 elisa kit	Background: SMAD9 or Mothers against decapentaplegic homolog 9 is a polypeptide that, as its namedescribes, is a homolog of the Drosophila gene: "Mothers against decapentaplegic". It belongs to the SMAD family of proteins, which belong to the TGFbeta superfamily of modulators. Like many other TGFbeta family members, SMAD9 is involved in cell signalling.When a bone morphogenetic protein binds to a receptor (BMP type 1 receptor kinase) it causes SMAD9 to interact with SMAD anchor for receptor activation (SARA). Principle of the Assay: Human Mothers against decapentaplegic homolog 9 (SMAD9) ELISA Kit employs a two-site sandwich ELISA to quantitate SMAD9 in samples. An antibody specific for SMAD9 has been pre-coated onto a microplate. Standards and samples are pipetted intothe wells and any SMAD9 present is bound by the immobilized antibody. After removingany unbound substances, HRP-Conjugated Human SMAD9 detection antibody is addedto the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is added to the wells and color develops in proportion to the amount of SMAD9bound in the initial step. The color development is stopped and the intensity of the color ismeasured.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13959539
NCBI GeneID	4093
UniProt Accession #	O15198
NCBI Official Full Name	Mothers against decapentaplegic homolog 9
NCBI Official Synonym Full Names	SMAD family member 9
NCBI Official Symbol	SMAD9
NCBI Official Synonym Symbols	PPH2; MADH6; MADH9; SMAD8; SMAD8A; SMAD8B; SMAD8/9
NCBI Protein Information	mothers against decapentaplegic homolog 9
UniProt Protein Name	Mothers against decapentaplegic homolog 9
UniProt Gene Name	**SMAD9**
UniProt Synonym Gene Names	MADH6; MADH9; MAD homolog 9; Mothers against DPP homolog 9; SMAD 9; Smad9
UniProt Entry Name	SMAD9_HUMAN

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-9-smad9/330782