

Human Mothers Against Decapentaplegic Homolog 4 (SMAD4) ELISA Kit | SMAD4 elisa kit

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CATALOG #
AAA330785

REACTIVITY
Human

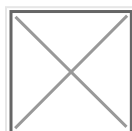
PRODUCT SYNONYMS

Mothers Against Decapentaplegic Homolog 4 (SMAD4); Human Mothers Against Decapentaplegic Homolog 4 (SMAD4) ELISA Kit; SMAD4; DPC4; JIP; MADH4; MAD; mothers against decapentaplegic homolog 4; OTTHUMP00000163548; SMAD; mothers against DPP homolog 4; deleted in pancreatic carcinoma locus 4; mothers against decapentaplegic homolo; SMAD4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Mothers against decapentaplegic homolog 4 (SMAD4) ELISA Kit has high sensitivity and excellent specificity for detection of Human SMAD4. No significant cross-reactivity or interference between Human SMAD4 and analogues was observed.
Sequence Length	552
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	<ul style="list-style-type: none"> * Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Mothers against decapentaplegic homolog 4 (SMAD4) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SMAD4 elisa kit	<p>Description: This Human Mothers against decapentaplegic homolog 4 (SMAD4) ELISA Kit employs a two-site sandwich ELISA to quantitate SMAD4 in samples. An antibody specific for SMAD4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SMAD4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SMAD4 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 SMAD4 bound in the initial step. The color development is stopped and the intensity of the color is measured.</p> <p>Background: SMAD4 is a 552 amino acid protein involved in cell signaling. It belongs to the Darfwin family of proteins which modulate members of the TGF beta protein superfamily. It binds receptor regulated SMADs such as SMAD1 or SMAD2 and forms a complex that binds to DNA and serves as a transcription factor. It is the only known mammalian coSMAD. It is a homolog of the Drosophila protein: "Mothers against decapentaplegic". The SMAD proteins are homologs of both the drosophila protein, mothers against decapentaplegic (MAD) and the C. elegans protein SMA. The name is a combination of the two. During Drosophila research, it was found that a mutation in the gene, MAD, in the mother, repressed the gene, decapentaplegic, in the embryo.</p>
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4885457
NCBI GeneID	4089
NCBI Accession #	NP_005350.1
NCBI GenBank Nucleotide #	NP_005350.1
UniProt Accession #	Q13485
NCBI Official Full Name	mothers against decapentaplegic homolog 4
NCBI Official Synonym Full Names	SMAD family member 4
NCBI Official Symbol	SMAD4
NCBI Official Synonym Symbols	JIP; DPC4; MADH4; MYHRS
NCBI Protein Information	mothers against decapentaplegic homolog 4
UniProt Protein Name	Mothers against decapentaplegic homolog 4
UniProt Gene Name	SMAD4
UniProt Synonym Gene Names	DPC4; MADH4; MAD homolog 4; Mothers against DPP homolog 4; SMAD 4; Smad4; hSMAD4
UniProt Entry Name	SMAD4_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-4-smad4/330785>