

Human Mothers Against Decapentaplegic Homolog 2 (SMAD2) ELISA Kit | SMAD2 elisa kit

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CATALOG #
AAA330787

REACTIVITY
Human

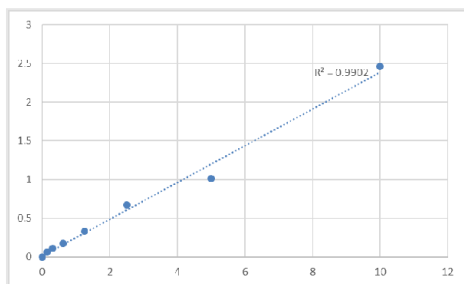
PRODUCT SYNONYMS

Mothers Against Decapentaplegic Homolog 2 (SMAD2); Human Mothers Against Decapentaplegic Homolog 2 (SMAD2) ELISA Kit; SMAD2; JV18; JV18-1; MADH2; MADR2; MGC22139; MGC34440; hMAD-2; hSMAD2; MAD; mothers against decapentaplegic homolog 2; Mad protein homolog; Mad; Mad-related protein; SMAD2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Mothers Against Decapentaplegic Homolog 2 (SMAD2) ELISA Kit has high sensitivity and excellent specificity for detection of Human SMAD2. No significant cross-reactivity or interference between Human SMAD2 and analogues was observed.
Sequence Length	467
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* 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 2 (SMAD2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for SMAD2 elisa kit	Description: This Human Mothers Against Decapentaplegic Homolog 2 (SMAD2) ELISA Kit employs a two-site sandwich ELISA to quantitate SMAD2 in samples. An antibody specific for SMAD2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SMAD2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SMAD2 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 SMAD2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: SMAD2 is a protein belongs to the SMAD, a family of proteins similar to the gene products of the Drosophila gene 'mothers against decapentaplegic' (Mad) and the C. elegans gene Sma. SMAD proteins are signal transducers and transcriptional modulators that mediate multiple signaling pathways. This protein mediates the signal of the transforming growth factor (TGF)-beta, and thus regulates multiple cellular processes, such as cell proliferation, apoptosis, and differentiation. This protein is recruited to the TGF-beta receptors through its interaction with the SMAD anchor for receptor activation (SARA) protein. In response to TGF-beta signal, this protein is phosphorylated by the TGF-beta receptors. The phosphorylation induces the dissociation of this protein with SARA and the association with the family member SMAD4.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	51173730
NCBI GeneID	4087
NCBI Accession #	NP_001003652.1
NCBI GenBank Nucleotide #	NP_001003652.1
UniProt Accession #	Q15796
NCBI Official Full Name	mothers against decapentaplegic homolog 2 isoform 1
NCBI Official Synonym Full Names	SMAD family member 2
NCBI Official Symbol	SMAD2
NCBI Official Synonym Symbols	JV18; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2
NCBI Protein Information	mothers against decapentaplegic homolog 2
UniProt Protein Name	Mothers against decapentaplegic homolog 2
UniProt Gene Name	SMAD2
UniProt Synonym Gene Names	MADH2; MADR2; MAD homolog 2; Mothers against DPP homolog 2; hMAD-2; SMAD 2; Smad2; hSMAD2
UniProt Entry Name	SMAD2_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.