

Canine Mothers Against Decapentaplegic Homolog 7 ELISA Kit | Smad7 elisa kit

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CATALOG #
AAA93435

REACTIVITY
Canine

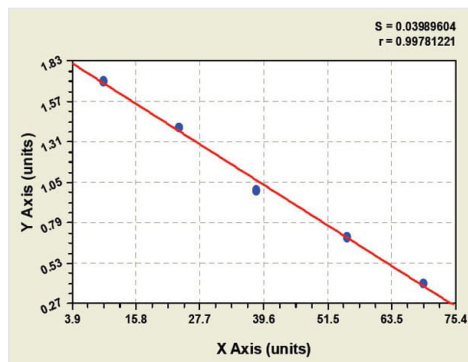
PRODUCT SYNONYMS

Mothers Against Decapentaplegic Homolog 7; Canine Mothers Against Decapentaplegic Homolog 7 ELISA Kit; Smad7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Sandwich
Detection Range	0.5-10ng/mL
Sensitivity	0.1ng/mL
Intended Uses	This Smad7 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine Smad7. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Smad7 elisa kit

Principle of the Assay: Smad7 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-Smad7 antibody and an Smad7-HRP conjugate. The assay sample and buffer are incubated together with Smad7-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the Smad7 concentration since Smad7 from samples and Smad7-HRP conjugate compete for the anti-Smad7 antibody binding site. Since the number of sites is limited, as more sites are occupied by Smad7 from the sample, fewer sites are left to bind Smad7-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The Smad7 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	18418630
NCBI GeneID	4092
Molecular Weight	46,355 Da
NCBI Official Full Name	Smad7
NCBI Official Synonym Full Names	SMAD family member 7
NCBI Official Symbol	SMAD7
NCBI Official Synonym Symbols	CRCS3; MADH7; MADH8
NCBI Protein Information	mothers against decapentaplegic homolog 7; hSMAD7; MAD homolog 8; mothers against DPP homolog 8; SMAD, mothers against DPP homolog 7; Mothers against decapentaplegic, drosophila, homolog of, 7; MAD (mothers against decapentaplegic, Drosophila) 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; hSMAD7
UniProt Entry Name	SMAD7_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/smad7-canine-elisa-kits/mothers-against-decapentaplegic-homolog-7/93435>