Canine Mothers Against Decapentaplegic Homolog 4 ELISA Kit | Smad4 elisa kit

Canine Mothers Against Decapentaplegic Homolog 4 ELISA Kit

CATALOG #	REACTIVITY
AAA91460	**Canine**

PRODUCT SYNONYMS

Mothers Against Decapentaplegic Homolog 4; Canine Mothers Against Decapentaplegic Homolog 4 ELISA Kit; Smad4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Smad4 elisa kit	**Intended Uses:** This Smad4 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine Smad4. This ELISA kit for research use only! **Principle of the Assay:** Smad4 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-Smad4 antibody and an Smad4-HRP conjugate. The assay sample and buffer are incubated together with Smad4-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 Smad4 concentration since Smad4 from samples and Smad4-HRP conjugate compete for the anti-Smad4 antibody binding site. Since the number of sites is limited, as more sites are occupied by Smad4 from the sample, fewer sites are left to bind Smad4-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The Smad4 concentration in each sample is interpolated from this standard curve.
Product Categories/Family for Smad4 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	13603414

NCBI GeneID	4089
Molecular Weight	60,439 Da
NCBI Official Full Name	SMAD4, partial
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; MAD homolog 4; SMAD, mothers against DPP homolog 4; deleted in pancreatic carcinoma locus 4; deletion target in pancreatic carcinoma 4; mothers against decapentaplegic, Drosophila, homolog of, 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/smad4-canine-elisa-kits/mothers-against-decapentaplegic-homolog-4/91460