

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

Canine Mothers Against Decapentaplegic Homolog 4 ELISA Kit

|                              |                             |
|------------------------------|-----------------------------|
| CATALOG #<br><b>AAA91460</b> | REACTIVITY<br><b>Canine</b> |
|------------------------------|-----------------------------|

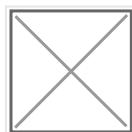
### PRODUCT SYNONYMS

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 | <p><b>Intended Uses:</b> 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!</p> <p><b>Principle of the Assay:</b> 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.</p> |
| Product Categories/Family for Smad4 elisa kit   | <a href="#">Signal Transduction</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### NCBI AND UNIPROT INFORMATION

|           |                          |
|-----------|--------------------------|
| NCBI GI # | <a href="#">13603414</a> |
|-----------|--------------------------|

|                                  |                                                                                                                                                                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GeneID                      | <a href="#">4089</a>                                                                                                                                                                                                                          |
| 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                | <b>SMAD4</b>                                                                                                                                                                                                                                  |
| 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>