# Rat Odontogenic ameloblast-associated protein (ODAM) ELISA Kit

Catalog No: #EK11484

Package Size: #EK11484-1 48T #EK11484-2 96T

Orders: order@signalwayantibody.com
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## Description

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| Product Name | Rat Odontogenic ameloblast-associated protein (ODAM) ELISA Kit |
| Brief Description | ELISA Kit |
| Applications | ELISA |
| Species Reactivity | Rat (Rattus norvegicus) |
| Other Names | APIN; FLJ20513; odontogenic ameloblast-associated protein |
| Accession No. | Q3HS83 |
| Uniprot | Q3HS83 |
| GeneID | 641555; |
| Storage | The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C). |

## Application Details

Detect Range:0.781-50 ng/mL

Sensitivity:0.31 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate ODAM in samples. An antibody specific for ODAM has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyODAM present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ODAM 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 ODAM bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:ODAM is expressed in rodent enamel organ and is likely involved in dental development.Notably, these reagents immunostained normal and malignant ameloblasts and other types of human neoplastic cells, including those of gastric, lung, and breast origin where the presence in the latter was confirmed by in situ hybridization using gene-specific molecular probes. Moreover, significant titers of anti-ODAM IgG antibodies were detected in the sera of patients with these malignancies.ODAM is a developmental antigen that has an essential role in tooth maturation and in the pathogenesis of certain odontogenic and other epithelial neoplasms; ODAM may serve as a novel prognostic biomarker, as well as a potential diagnostic and therapeutic target for patients with breast and other epithelial forms of cancer

Note: This product is for in vitro research use only