

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

Catalog No: #EK11484

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

## Description

Product Name	Rat Odontogenic ameloblast-associated protein (ODAM) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	APIN; FLJ20513; odontogenic ameloblast-associated protein
Accession No.	Q3HS83
Uniprot	Q3HS83
GeneID	641555;
Storage	<p>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.</p> <p>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).</p>

## 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 ODA M in samples. An antibody specific for ODA M has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ODA M present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ODA M 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 ODA M 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. ODA M is a developmental antigen that has an essential role in tooth maturation and in the pathogenesis of certain odontogenic and other epithelial neoplasms; ODA M 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

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Note: This product is for in vitro research use only