

# Mouse Dual specificity tyrosine-phosphorylation-regulated kinase 1A (DYRK1A) ELISA Kit

Catalog No: #EK11269

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Package Size: #EK11269-1 48T #EK11269-2 96T

## Description

Product Name	Mouse Dual specificity tyrosine-phosphorylation-regulated kinase 1A (DYRK1A) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse ( <i>Mus musculus</i> )
Other Names	DYRK; DYRK1; HP86; MNB; MNBH; MNB/DYRK protein kinase OTTHUMP00000109090 dual specificity YAK1-related kinase mnb protein kinase homolog hp86 protein kinase minibrain homolog serine/threonine kinase
Accession No.	Q61214
Uniprot	Q61214
GeneID	13548;
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:0.156-10 ng/mL

Sensitivity:0.063 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200  $\mu$ L

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate DYRK1A in samples. An antibody specific for DYRK1A has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDYRK1A present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DYRK1A 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 DYRK1A bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**DYRK1A encodes a member of the Dual-specificity tyrosine phosphorylation-regulated kinase family. This member contains a nuclear targeting signal sequence, a protein kinase domain, a leucine zipper motif, and a highly conservative 13-consecutive-histidine repeat. It catalyzes its autophosphorylation on serine/threonine and tyrosine residues. It may play a significant role in a signaling pathway regulating cell proliferation and may be involved in brain development. This gene is a homolog of *Drosophila*

mnb gene and rat Dyrk gene. It is localized in the Down syndrome critical region of chromosome 21, and is considered to be a strong candidate gene for learning defects associated with Down syndrome. Alternative splicing of this gene generates several transcript variants differing from each other either in the 5' UTR or in the 3' coding region.

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Note: This product is for in vitro research use only