

## Rat Drebrin (DBN1) ELISA Kit

Catalog No: #EK11276



Package Size: #EK11276-1 48T #EK11276-2 96T

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## Description

Product Name	Rat Drebrin (DBN1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	D0S117E; DKFZp434D064; drebrin E drebrin E2 drebrin-1
Accession No.	Q07266
Uniprot	Q07266
GeneID	81653;
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:0.31-20 pg/mL

Sensitivity:0.156 pg/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 DBN1 in samples. An antibody specific for DBN1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyDBN1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for DBN1 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 DBN1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Drebrin 1 is a cytoplasmic actin-binding protein thought to play a role in the process of neuronal growth. It is a member of the drebrin family of proteins that are developmentally regulated in the brain. A decrease in the amount of this protein in the brain has been implicated as a possible contributing factor in the pathogenesis of memory disturbance in Alzheimer's disease. At least two alternative splice variants encoding different protein isoforms have been described for this gene.

The deduced 649-amino acid protein shows 88% homology with rat drebrin A, except for an internal 138-nucleotide sequence. There are 3 drebrin isoforms: 2 embryonic types, E1 and E2, and an adult type, A, that are generated by alternative RNA splicing from a single drebrin gene in the chicken brain.

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Note: This product is for in vitro research use only