

## Rat Heat shock protein beta-2 (HSPB2) ELISA Kit

Catalog No: #EK11243



Package Size: #EK11243-1 48T #EK11243-2 96T

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## Description

Product Name	Rat Heat shock protein beta-2 (HSPB2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	HSP27; Hs.78846; LOH11CR1K; MGC133245; MKBP; heat shock 27kD protein 2 heat-shock protein beta-2
Accession No.	O35878
Uniprot	O35878
GeneID	161476;
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:0.055 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 HSPB2 in samples. An antibody specific for HSPB2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyHSPB2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for HSPB2 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 HSPB2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Heat shock protein beta-2 is a protein encoded by the HSPB2 gene.Alpha-B-crystallin (CRYAB) is a member of the alpha-crystallin/small heat-shock protein (HSP) family and under various neuropathologic conditions accumulates in reactive astrocytes and degenerating neurons. In the 5-prime flanking region of the CRYAB gene on 11q22-q23, where a constitutive DNaseI hypersensitive site is located, Iwaki et al. (1997) identified a gene transcribed in the opposite direction. Analysis of its mRNA structure by RT-PCR and 5-prime/3-prime RACE revealed that this gene is composed of 2 exons and encodes a new member of the alpha-crystallin/hsp family. They termed the gene HSPB2. Iwaki et al. (1997) also determined the complete genomic structure of the rat homolog of HSPB2.

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Note: This product is for in vitro research use only