Human Heat shock factor protein 2 (HSF2) ELISA Kit

Catalog No: #EK11244

Package Size: #EK11244-1 48T #EK11244-2 96T

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Description

Product Name	Human Heat shock factor protein 2 (HSF2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	MGC117376; MGC156196; MGC75048; heat shock factor 2
Accession No.	Q03933
Uniprot	Q03933
GeneID	3298;
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. 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:0.156-10 ng/mL

Sensitivity:0.057 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 HSF2 in samples. An antibody specific for HSF2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyHSF2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for HSF2 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 HSF2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:HSF2, as well as the related gene HSF1, encodes a protein that binds specifically to the heat-shock element and has homology to HSFs of other species. Heat shock transcription factors activate heat-shock response genes under conditions of heat or other stresses. Although the names HSF1 and HSF2 were chosen for historical reasons, these peptides should be referred to as heat-shock transcription factors.Kallio et al. (2002) found that mouse Hsf2 was expressed in all 3 embryonic layers at embryonic day 7.5 and that the head fold was strongly stained at embryonic day 8.5. At later developmental stages, Hsf2 expression was progressively limited to the central nervous system. In adults, Hsf2 expression was detected in spermatocytes and spermatogonia, but not in elongated spermatids, spermatozoa, or Sertoli cells.

Note: This product is for in vitro research use only