Horse Protein quaking (QKI) ELISA Kit

Catalog No: #EK7859

Package Size: #EK7859-1 48T #EK7859-2 96T

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Description

Product Name	Horse Protein quaking (QKI) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Horse (Equus caballus; Equine)
Other Names	DKFZp586I0923; Hqk; QK; QK1; QK3; RNA binding protein HQK|homolog of mouse quaking QKI (KH domain RNA binding protein)|quaking homolog; KH domain RNA binding
Accession No.	Q5W9D6
Uniprot	Q5W9D6
GeneID	100033866;
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:Request Information

Sensitivity:Request Information

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 QKI in samples. An antibody specific for QKI has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyQKI present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for QKI 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 QKI bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:QKI belongs to a family of RNA-binding proteins called STAR proteins for Signal Transduction and Activation of RNA. They have an HNRNPK homology (KH) domain embedded in a 200-amino acid region called the GSG domain. Other members of this family include SAM68 (KHDRBS1) and SF1.

The QKI gene is implicated as being important in schizophrenia, and QKI controls translation of many oligodendrocyte-related genes.The balance between the nuclear and cytoplasmic isoforms of Qk1 controlled the nuclear export of Mbp mRNAs and the cellular localization of the 17- and 21.5-kD Mbp isoforms. Overexpression of Qki-5 in cultured rodent oligodendrocytes recreated the Mbp defects observed in qk(v) mice, with retention of Mbp in the nucleus.

Note: This product is for in vitro research use only