

Human Pituitary homeobox 1 (PITX1) ELISA Kit

Catalog No: #EK8496



Package Size: #EK8496-1 48T #EK8496-2 96T

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Description

Product Name	Human Pituitary homeobox 1 (PITX1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	BFT; CCF; POTX; PTX1; hindlimb expressed homeobox protein backfoot paired-like homeodomain transcription factor 1 pituitary homeo box 1 pituitary otx-related factor
Accession No.	P78337
Uniprot	P78337
GeneID	5307;
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:15.6-1000 pg/mL

Sensitivity:7.5 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 PITX1 in samples. An antibody specific for PITX1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPITX1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PITX1 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 PITX1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**PITX1 encodes a member of the RIEG/PITX homeobox family, which is in the bicoid class of homeodomain proteins. According to an October 2008 press release by the Washington University School of Medicine, the gene is the first gene thought to be involved with clubfoot. Members of this family are involved in organ development and left-right asymmetry. This protein acts as a transcriptional regulator involved in basal and hormone-regulated activity of prolactin and it could be associated with autism.

The putative encoded mouse and human proteins share 100% identity in the homeodomain and are 88% and 97% conserved in the N- and C-terminal regions, respectively. Intron/exon boundaries are also conserved.

Note: This product is for in vitro research use only