Mouse Runt-related transcription factor 2 (RUNX2) ELISA Kit

Catalog No: #EK7499

Package Size: #EK7499-1 48T #EK7499-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Mouse Runt-related transcription factor 2 (RUNX2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	RP1-166H4.1; AML3; CBFA1; CCD; CCD1; MGC120022; MGC120023; OSF2; PEA2aA; PEBP2A1; PEBP2A2; PEBP2aA; PEBP2aA1; CBF-alpha 1|SL3-3 enhancer factor 1 alpha A subunit|SL3/AKV core-binding factor alpha A
Accession No.	Q08775
Uniprot	Q08775
GeneID	12393;
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:0.312-20 ng/mL

Sensitivity:0.116 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 RUNX2 in samples. An antibody specific for RUNX2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyRUNX2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for RUNX2 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 RUNX2 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Cbfa1/Runx2 is a key transcription factor associated with osteoblast differentiation.This protein is a member of the RUNX family of transcription factors and has a Runt DNA-binding domain. It is essential for osteoblastic differentiation and skeletal morphogenesis and acts as a scaffold for nucleic acids and regulatory factors involved in skeletal gene expression. The protein can bind DNA both as a monomer or, with more affinity, as a subunit of a heterodimeric complex. Transcript variants of the gene that encode different protein isoforms result from the use of alternate promoters as well as alternate splicing.The RUNX2 transcription factor is the master regulator

of osteoblast differentiation is required for chondrocyte hypertrophy .

Note: This product is for in vitro research use only