Recombinant Human PITX2 293 Cell Lysate

Cat. No. PITX2-3164HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for paired-like homeodomain 2 (PITX2), transcript variant 2 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	PITX2 paired-like homeodomain 2 [Homo sapiens]
Official Symbol	PITX2
Synonyms	PITX2; paired-like homeodomain 2; IHG2, IRID2, paired like homeodomain transcription factor 2 , RGS, RIEG, RIEG1; pituitary homeobox 2; ARP1; Brx1; IGDS; Otlx2; RS; solurshin; all1-responsive gene 1; homeobox protein PITX2; ALL1-responsive protein ARP1; paired-like homeodomain transcription factor 2; rieg bicoid-related homeobox transcription factor 1; RGS; IDG2; IHG2; PTX2; RIEG; IGDS2; IRID2; RIEG1; MGC20144; MGC111022;
Gene ID	5308
mRNA Refseq	NM_153426
Protein Refseq	NP_700475
MIM	601542
UniProt ID	Q99697
Chromosome Location	4q25
Pathway	Heart Development, organism-specific biosystem; Regulation of Wnt-mediated beta

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	catenin signaling and target gene transcription, organism-specific biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;
Function	RNA polymerase II activating transcription factor binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in negative regulation of transcription; RNA polymerase II transcription coactivator activity; RNA polymerase II transcription factor binding; RNA polymerase II transcription factor binding transcription factor activity involved in negative regulation of transcription; phosphoprotein binding; protein binding; protein homodimerization activity; ribonucleoprotein complex binding; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription regulatory region sequence-specific DNA binding;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA