

## Recombinant Human PITX2 293 Cell Lysate

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

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Components</b>	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).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	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.
<b>Applications</b>	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

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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 catenin signaling and target gene transcription, organism-specific biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway,

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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;

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