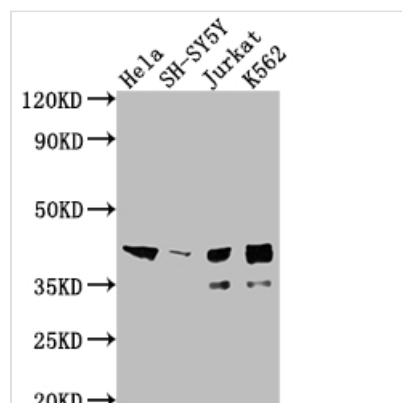




ISL1 Antibody

Product Code	CSB-RA582994A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P61371
Immunogen	A synthesized peptide derived from human Islet 1
Species Reactivity	Human
Tested Applications	ELISA, WB; Recommended dilution: WB:1:500-1:5000
Relevance	DNA-binding transcriptional activator. Recognizes and binds to the consensus octamer binding site 5'-ATAATTAA-3' in promoter of target genes. Plays a fundamental role in the gene regulatory network essential for retinal ganglion cell (RGC) differentiation. Cooperates with the transcription factor POU4F2 to achieve maximal levels of expression of RGC target genes and RGC fate specification in the developing retina. Involved in the specification of motor neurons in cooperation with LHX3 and LDB1. Binds to insulin gene enhancer sequences.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience; Cardiovascular; Developmental biology; Stem cells
Gene Names	ISL1
Accession NO.	4F6

Image



Western Blot

Positive WB detected in: HeLa whole cell lysate, SH-SY5Y whole cell lysate, Jurkat whole cell lysate, K562 whole cell lysate

All lanes: ISL1 antibody at 1:2000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 40 kDa

Observed band size: 39 kDa



Description

The first step in the preparation of recombinant ISL1 antibody is to obtain the ISL1 antibody gene. The heavy and light chain genes of the antibody were constructed into a plasma vector and then transfected into suspended mammalian cells transiently. After expression verification, cell supernatant was collected in expanded culture and purified recombinant ISL1 antibody was obtained using affinity-chromatography. This recombinant ISL1 antibody has been validated for the detection of ISL1 protein from Human in the ELISA, WB.

ISL1 is a LIM-homeodomain transcriptional factor that marks undifferentiated cardiac progenitors of the second heart field and is required for these progenitors to contribute to the heart. ISL1 participates in multiple cellular processes, such as islet cell differentiation, motor neuron generation, as well as cardiovascular development. In embryonic and postnatal pancreatic islets, ISL1 is essential for facilitating pancreatic islets proliferation and maintaining endocrine cells survival. It also plays a key role in multiple organs during embryonic development.