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Islet 1 Rabbit pAb

Catalog # AP53531

Product Information

Application	WB, FC, IP
Primary Accession	P61371
Host	Rabbit
Clonality	Polyclonal Antibody
Calculated MW	39036

Additional Information

Gene ID	3670
Other Names	Insulin gene enhancer protein ISL-1, Islet-1, ISL1
Dilution	WB~~1:1000 FC~~1:10~50 IP~~N/A

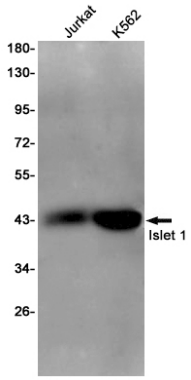
Protein Information

Name	ISL1
Function	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 (By similarity). Binds to insulin gene enhancer sequences (By similarity). Essential for heart development. Marker of one progenitor cell population that give rise to the outflow tract, right ventricle, a subset of left ventricular cells, and a large number of atrial cells as well, its function is required for these progenitors to contribute to the heart. Controls the expression of FGF and BMP growth factors in this cell population and is required for proliferation and survival of cells within pharyngeal foregut endoderm and adjacent splanchnic mesoderm as well as for migration of cardiac progenitors into the heart (By similarity).
Cellular Location	Nucleus {ECO:0000250|UniProtKB:P61372}.
Tissue Location	Expressed in subsets of neurons of the adrenal medulla and dorsal root ganglion, inner nuclear and ganglion cell layers in the retina, the pineal and some regions of the brain

Background

Swiss-Prot Acc.P61371.

Images



Western blot detection of Islet 1 in Jurkat,K562 cell lysates using Islet 1 Rabbit pAb(1:1000 diluted).Predicted band size:39KDa.Observed band size:39KDa.