



# Mouse Anti-Human ISL1 monoclonal antibody, clone 2I0 (DMABB-JX04P)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Immunogen</b>	Purified recombinant fragment of human ISL1 expressed in E. coli.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	2I0
<b>Purification</b>	Unpurified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB: 1:500-1:2000; IHC: 1:200-1:1000; IF: 1:200-1:1000; Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
<b>Format</b>	Ascitic fluid
<b>Size</b>	100 µl
<b>Buffer</b>	PBS pH7.4 with 0.09% sodium azide
<b>Preservative</b>	0.03% sodium azide
<b>Storage</b>	Store at -20°C. Avoid multiple freeze-thaw cycles.
<b>Ship</b>	Wet ice

# BACKGROUND

**Introduction** Islet-1 (ISL1 transcription factor, LIM/homeodomain) and Islet-2 (ISL2 transcription factor, LIM/homeodomain) contain amino-terminal LIM domains and a carboxy-terminal homeodomain and both influence developmental events. Islet-1 influences embryogenesis of the pancreatic islets of Langerhans and neural tube motor neuron differentiation. In developing mouse teeth, Islet-1 mediates patterning of dentition as an activator of Bmp4 expression in incisor (distal) areas of the stomatodeal epithelium. Islet-1 expression defines cardiac progenitor cell populations and is required for normal cardiac development and asymmetry. Islet-2 activity in newly generated motor neurons permits the diversification of visceral and somatic motor neuron subtypes in the developing spinal cord. Murine Islet-2 specifies retinal ganglion cell (RGC) laterality by repressing an ipsilateral pathfinding program unique to the ventral-temporal crescent (VTC) of RGCs in a Zic2- and EphB1-dependent manner.

**Keywords** Insulin gene enhancer protein ISL 1;Insulin gene enhancer protein ISL-1;Insulin related protein;ISL 1;ISL LIM homeobox 1;ISL1;ISL1 transcription factor LIM homeodomain;ISL1 transcription factor, LIM/homeodomain (islet 1);ISL1 transcription factor, LIM/homeodomain;ISL1\_HUMAN;Islet-1;Islet1

# GENE INFORMATION

**UniProt ID** [P61371](#)