



# Mouse Anti Rat Islet-1 homeobox Hybridoma [40.5E5] (CSC-H1829)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	This hybridoma produces mAbs (IgG2b) against rat Islet-1 homeobox
<b>Target</b>	rat Islet-1 and 2
<b>Immunogen</b>	Rat Islet-1 & 2 homeobox
<b>Isotype</b>	IgG2b
<b>Species</b>	Rat
<b>Clone</b>	40.5E5
<b>Application</b>	, IHC,
<b>Application Notes</b>	Cell binding, IHC, IHC
<b>Storage</b>	Liquid nitrogen vapor phase.
<b>Ship</b>	Dry Ice
<b>Immunological Donor</b>	Female balb/c Mouse spleen
<b>Cell Line Description</b>	The hybridoma produces monoclonal antibody against Rat Islet-1 & 2 homeobox
<b>Myeloma</b>	Mouse NS1
<b>Fusion Species</b>	Mouse X Mouse Hybridoma
<b>Mycoplasma</b>	Mycoplasma Status: Negative (MycoAlert Kit)
<b>Reactivity</b>	all tested (rat, mouse, chick, frog, zebra fish, human) are positive

## Safety Considerations

The following safety precautions should be observed.

1. Use pipette aids to prevent ingestion and keep aerosols down to a minimum.
2. No eating, drinking or smoking while handling the hybridoma.
3. Wash hands after handling the hybridoma and before leaving the lab.
4. Decontaminate work surface with disinfectant or 70% ethanol before and after working with hybridoma.
5. All waste should be considered hazardous.
6. Dispose of all liquid waste after each experiment and treat with bleach.

## GENE INFORMATION

Gene Name	<a href="#">Isl1 ISL LIM homeobox 1 [ Rattus norvegicus ]</a>
Official Symbol	Isl1
Synonyms	Isl1; ISL LIM homeobox 1; Isl-1; isl-1=homeobox; ISL1 transcription factor LIM/homeodomain (islet-1); ISL1 transcription factor, LIM/homeodomain 1; insulin gene enhancer protein ISL-1; isl-1 homeobox; islet-1;
Entrez Gene ID	<a href="#">64444</a>
mRNA Refseq	<a href="#">NM_017339.3</a>
Protein Refseq	<a href="#">NP_059035.3</a>
UniProt ID	<a href="#">P61374</a>
Chromosome Location	2q15
Pathway	Incretin Synthesis, Secretion, and Inactivation; Integration of energy metabolism; Metabolism; Regulation of Insulin Secretion; Synthesis, Secretion, and Inactivation of Glucose-dependent Insulinotropic Polypeptide (GIP)
Function	DNA binding; RNA polymerase II activating transcription factor binding; RNA polymerase II transcription coactivator activity; bHLH transcription factor binding; chromatin binding; enhancer sequence-specific DNA binding
References	1.Ericson, J., Thor, S., Edlund, T., Jessell, T.M., and Yamada, T. (1992). Early stages of motor neuron differentiation revealed by expression of homeobox gene Islet-1. Science 256, 1555-1560. 2.Yamada, T., Pfaff, S.L., Edlund, T., and Jessell, T.M. (1993). Control of cell pattern in the neural tube: Motor neuron induction by diffusible factors from notochord and floor plate. Cell 73, 673-686.