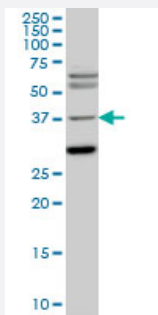


ISL1 monoclonal antibody (M05), clone 2E7

Catalog # H00003670-M05

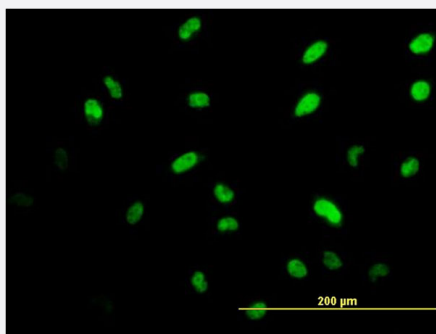
Size 100 ug

Applications



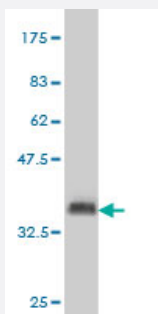
Western Blot (Cell lysate)

ISL1 monoclonal antibody (M05), clone 2E7 Western Blot analysis of ISL1 expression in PC-12 (Cat # L012V1).



Immunofluorescence

Immunofluorescence of monoclonal antibody to ISL1 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (36.41 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant ISL1.

Immunogen	ISL1 (NP_002193, 63 a.a. ~ 159 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	YCKRDYIRLYGKCAKCSIGFSKNDFVMRARSKVYHIECFRCVACSRQLIPGDEFALREDGLFCRA DHDVVERASLGAGDPLSPLHPARPLQMAAEP
Host	Mouse
Reactivity	Human, Rat
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.41 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

ISL1 monoclonal antibody (M05), clone 2E7 Western Blot analysis of ISL1 expression in PC-12 (Cat # L012V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to ISL1 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — ISL1

Entrez GeneID	3670
GeneBank Accession#	NM_002202
Protein Accession#	NP_002193
Gene Name	ISL1

Gene Alias	Isl-1
Gene Description	ISL LIM homeobox 1
Omim ID	600366
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the LIM/homeodomain family of transcription factors. The encoded protein binds to the enhancer region of the insulin gene, among others, and may play an important role in regulating insulin gene expression. The encoded protein is central to the development of pancreatic cell lineages and may also be required for motor neuron generation. Mutations in this gene have been associated with maturity-onset diabetes of the young. [provided by RefSeq]
Other Designations	ISL1 transcription factor, LIM/homeodomain islet-1

Publication Reference

- [Phosphorylation of islet-1 serine 269 by CDK1 increases its transcriptional activity and promotes cell proliferation in gastric cancer.](#)

Qiong Shi, Xiaomei Ni, Ming Lei, Quansong Xia, Yan Dong, Qiao Zhang, Weiping Wang.

Molecular Immunology 2021 May; 27(1):47.

Application: IP, Human, MGC803 cells

- [Cross-talk of SFRP4, integrin \$\alpha 1\beta 1\$, and Notch1 inhibits cardiac differentiation of P19CL6 cells.](#)

Tian Y, Wang W, Lu Q, Chen P, Ma K, Jia Z, Zhou C.

Cellular Signalling 2016 Nov; 28(11):1806.

Application: WB-Ce, WB-Tr, Human, P19CL6 cells

- [ISL-1 is overexpressed in non-Hodgkin lymphoma and promotes lymphoma cell proliferation by forming a p-STAT3/p-c-Jun/ISL-1 complex.](#)

Zhang Q, Yang Z, Jia Z, Liu C, Guo C, Lu H, Chen P, Ma K, Wang W, Zhou C.

Molecular Cancer 2014 Jul; 13:181.

Application: WB-Ce, WB-Tr, Human, SUDHL16, Raji, Ly3, Jurkat cells

- [A positive feedback regulation of ISL-1 in DLBCL but not in pancreatic \$\beta\$ -cells.](#)

Zhang Q, Yang Z, Wang W, Guo T, Jia Z, Ma K, Zhou C.

Biochemical and Biophysical Research Communications 2014 Jul; 449(3):295.

Application: IP-WB, WB-Tr, Human, Mouse, HIT-T15, Ly3 cells

- [Interaction of Wnt/β-catenin and Notch signaling in the early stage of cardiac differentiation of P19CL6 cells.](#)

Li B, Jia Z, Wang T, Wang W, Zhang C, Chen P, Ma K, Zhou C.

Journal of Cellular Biochemistry 2012 Feb; 113(2):629.

Application: WB-Ce, WB-Tr, Mouse, P19CL6 cells

- [ISL1 Promotes Pancreatic Islet Cell Proliferation.](#)

Guo T, Wang W, Zhang H, Liu Y, Chen P, Ma K, Zhou C.

PLoS One 2011 Aug; 6(8):e22387.

Application: Func, IP, WB-Tr, Mouse, HIT-T15 cells

Disease

- [Attention Deficit Disorder with Hyperactivity](#)
- [Diabetes Mellitus](#)
- [Genetic Predisposition to Disease](#)
- [Heart Defects](#)
- [Tourette Syndrome](#)