



## Rabbit Anti-Islet 2 antibody

SL11321R

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|-------------------------------|---|
| <b>Product Name:</b>          | Islet 2   |
| <b>Chinese Name:</b>          | 胰岛素基因增强Binding protein2抗体   |
| <b>Alias:</b>                 | Insulin gene enhancer protein ISL 2; Insulin gene enhancer protein ISL-2; Insulin gene enhancer protein ISL2; ISL 2; ISL 2 transcription factor; ISL 2 transcription factor LIM/homeodomain; ISL2; ISL2 transcription factor; ISL2 transcription factor LIM/homeodomain; ISL2_HUMAN; Islet-2; Islet2; FLJ10160.                                 |
| <b>Organism Species:</b>      | Rabbit  |
| <b>Clonality:</b>             | Polyclonal  |
| <b>React Species:</b>         | Human,Mouse,Rat,Dog,Cow,Horse,Rabbit,Sheep,   |
| <b>Applications:</b>          | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair)<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.   |
| <b>Molecular weight:</b>      | 40kDa   |
| <b>Cellular localization:</b> | The nucleus   |
| <b>Form:</b>                  | Lyophilized or Liquid   |
| <b>Concentration:</b>         | 1mg/ml  |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from human Islet 2:201-300/359   |
| <b>Lsotype:</b>               | IgG   |
| <b>Purification:</b>          | affinity purified by Protein A  |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.  |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                   |
| <b>PubMed:</b>                | <a href="#">PubMed</a>  |
| <b>Product Detail:</b>        | Islet-2 (insulin gene enhancer protein ISL-2) is a 359 amino acid protein encoded by the human gene ISL2. Islet-2 is a nuclear protein that contains two N-terminal LIM domains, followed by a homeodomain and a serine/ glutamine/threonine-rich C-terminus. Islet-2 is a transcriptional factor that defines subclasses of motor neurons that |

segregate into columns in the spinal cord and select distinct axon pathways. Islet-1 and Islet-2 are initially expressed by all postmitotic spinal motor neurons prior to diversification of somatic and visceral neuronal fates. Somatic, but not visceral, motor neurons maintain Islet-2 expression at later embryonic stages. An early phase of Islet-2 expression by prospective visceral motor neurons of the sympathetic preganglionic motor column is critical for the emergence of complete visceral motor neuron character. Mutations that reduce or eliminate both Islet-1 and Islet-2 activity will result in pronounced defects in visceral motor neuron generation and eroded somatic motor neuron character.

**Function:**

Transcriptional factor that defines subclasses of motoneurons that segregate into columns in the spinal cord and select distinct axon pathways.

**Subcellular Location:**

Nucleus.

**Similarity:**

Contains 1 homeobox DNA-binding domain.

Contains 2 LIM zinc-binding domains.

**SWISS:**

Q96A47

**Gene ID:**

64843

**Database links:**

[Entrez Gene: 64843](#)Human

[Entrez Gene: 104360](#)Mouse

[Entrez Gene: 57233](#)Rat

[Omim: 609481](#)Human

[SwissProt: Q96A47](#)Human

[SwissProt: Q9CXV0](#)Mouse

[SwissProt: P50480](#)Rat

[Unigene: 444677](#)Human

[Unigene: 273996](#)Mouse

[Unigene: 10026](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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