

Rabbit anti-Human, Rat Islet 1 Polyclonal Antibody | anti-ISL1 antibody

Anti-Islet 1 Antibody

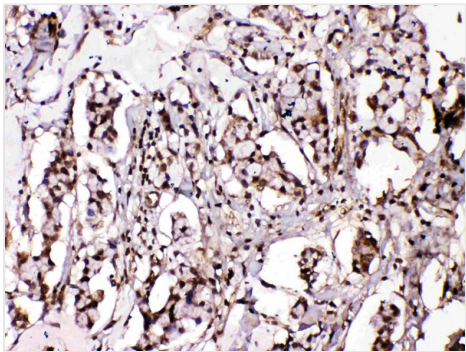
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA46746	Rabbit	Human, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

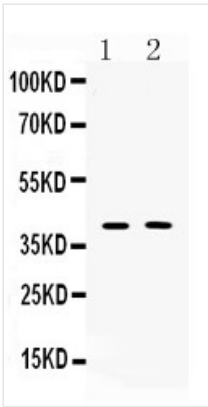
Islet 1; Polyclonal Antibody; Anti-Islet 1 Antibody; ISL 1; ISL1; Islet-1; Islet1; ISLET1; P61371; Insulin gene enhancer protein ISL-1; ISL LIM homeobox 1; anti-ISL1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	349
Applicable Applications for anti-ISL1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Notes	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Islet 1 (118-161aa DEFALREDGLFCRADHDVVERASLGAGDPLSPLHPARPLQMAAE), identical to the related mouse and rat sequences.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)
Islet 1 was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- Islet 1 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)
Western blot analysis of Islet 1 expression in PC12 whole cell lysates (lane 1) and MCF-7 whole cell lysates (lane 2). Islet 1 at 39KD was detected using rabbit anti- Islet 1 Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-ISL1 antibody	Rabbit IgG polyclonal antibody for Insulin gene enhancer protein ISL-1(ISL1) detection. Background: Insulin gene enhancer protein ISL-1 is a protein that in humans is encoded by the isl1 gene. 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.
References	1. "Entrez Gene: ISL1 ISL1 transcription factor, LIM/homeodomain, (islet-1)". 2. Gay F, Anglade I, Gong Z, Salbert G (October 2000). "The LIM/homeodomain protein islet-1 modulates estrogen receptor functions". Mol. Endocrinol. 14 (10): 1627-48. 3. Tanizawa Y, Riggs AC, Dagogo-Jack S, Vaxillaire M, Froguel P, Liu L, Donis-Keller H, Permutt MA (July 1994). "Isolation of the human LIM/homeodomain gene islet-1 and identification of a simple sequence repeat polymorphism [corrected]". Diabetes. 43 (7): 935-41.

NCBI AND UNIPROT INFORMATION

NCBI GI #	115387114
NCBI GeneID	3670
NCBI Accession #	NP_002193.2
NCBI GenBank Nucleotide #	NM_002202.2
UniProt Accession #	P61371; P20663; P47894
Molecular Weight	39,036 Da
NCBI Official Full Name	insulin gene enhancer protein ISL-1
NCBI Official Synonym Full Names	ISL LIM homeobox 1
NCBI Official Symbol	ISL1
NCBI Official Synonym Symbols	Isl-1; ISLET1
NCBI Protein Information	insulin gene enhancer protein ISL-1
UniProt Protein Name	Insulin gene enhancer protein ISL-1
UniProt Gene Name	ISL1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/islet-1-antibody-immunohistochemistry-western-blot-elisa/46746>