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Datasheet for ABIN6938077 **anti-NKX6-1 antibody**

Overview

Quantity:	100 µg
Target:	NKX6-1
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NKX6-1 antibody is un-conjugated
Application:	Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Recombinant full-length human NKX6.1 protein
Clone:	NKX61-2561
Isotype:	IgG2c kappa
Specificity:	<p>Members of the Nkx family of homeodomain proteins are key regulators of growth and development in several tissues, including brain, heart and pancreas. During neural development, sonic hedgehog (Shh) is known to control cell fate and mitogenesis, which is correlated with Shh dose-dependent expression of several genes, including Nkx-6.1. Specifically, Nkx-6.1 is responsible for cellular differentiation in the ventral neural tube and spinal meninges in response to Shh. In the pancreas, Nkx-6.1 is exclusively expressed in the islets of Langerhans in differentiating and mature B cells, which produce Insulin. The presence of Pdx-1 is required for the expression of Nkx-6.1 as well as other pancreatic B cell specific genes, including Insulin, Glut2 and IAPP. Subsequently, Nkx-6.1 binds to the DNA consensus sequence, TTAATTAC, to direct the repression of specific genes in B cells. Nkx6.1 is highly expressed in pancreatic and</p>

Product Details

duodenal well-differentiated neuroendocrine tumors (WDNETS) and in metastatic WDNETS, is a highly specific marker of tumors of pancreatic origin. It has thus been suggested that Nkx6.1 is a useful inclusion into IHC panels for identifying primary sites of WDNETS.

Cross-Reactivity (Details): Human.

Purification: 1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target: NKX6-1

Alternative Name: NKX6-1 ([NKX6-1 Products](#))

Background: Homeobox protein NK-6 homolog A, NK homeobox, family 6, A, NK6 homeobox 1, NK6 transcription factor homolog A, NK6 transcription factor related, locus 1 (Drosophila), NKX6-1, NKX6A, NKX6.1 (Marker for Pancreatic and Duodenal Neuroendocrine Tumors)
Cellular localisation: Nuclear

Molecular Weight: 40-50kDa

Gene ID: 4825, 546270

UniProt: [P78426](#)

Pathways: [Dopaminergic Neurogenesis](#), [Positive Regulation of Peptide Hormone Secretion](#)

Application Details

Application Notes: Known_Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.
Positive_Control: Human fetal small intestine lysate or pancreas tissue.

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

Buffer: Purified Ab WITHOUT BSA and Azide at 1.0mg/ml

Preservative: Azide free

Handling

Storage:	-20 °C,-80 °C
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Storage Comment:	Antibody without azide store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.
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Expiry Date:	24 months
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