Product Datasheet

NKX6.1 Antibody - BSA Free
NBP1-82553

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 15

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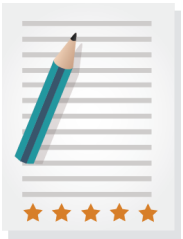
Updated 2/21/2025 v.20.1



NBP1-82553

NKX6.1 Antibody - BSA Free

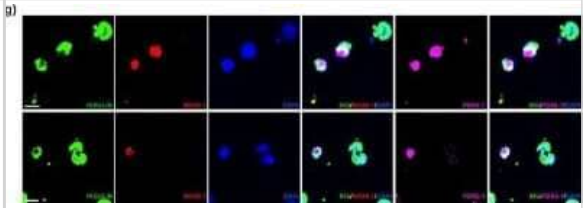
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	4825
Gene Symbol	NKX6-1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID:31872528).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: PLGTHNPGGLKPPATGGLSSLGSPPQQLSAATPHGINDILSRPSM

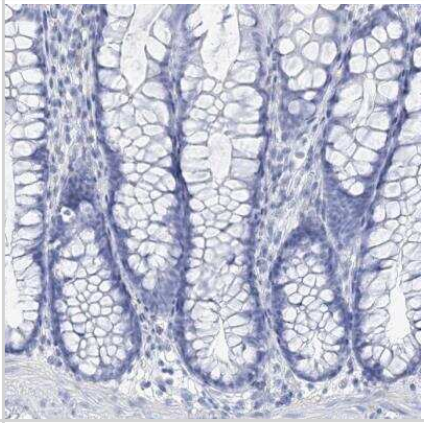
Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Flow Cytometry Reported in scientific literature (PMID: 30930126)., Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200-1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

Images

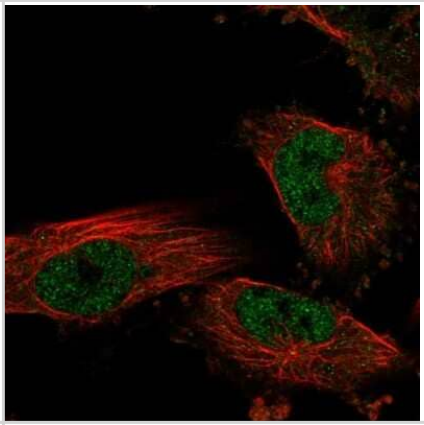
Immunocytochemistry/Immunofluorescence: NKX6.1 Antibody [NBP1-82553] - Comparison of the hiPSC differentiation outcome according to the stage of encapsulation. Whole mount immunofluorescence of encapsulated cells stained for insulin (green), NKX6.1 (red), PDX1 (purple) and DAPI (blue), gamma correction 0.4. Scale bars: 10 um. Graphs data are shown as mean +/- SEM. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/s41598-019-57305-x), licensed under a CC-BY license.



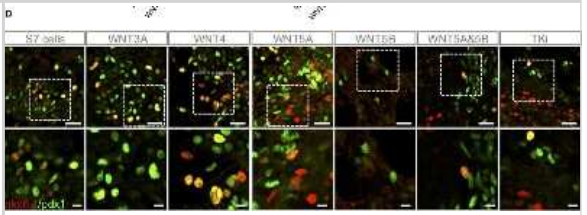
Immunohistochemistry-Paraffin: NKX6.1 Antibody [NBP1-82553] - Staining of human colon shows no positivity in glandular cells as expected.



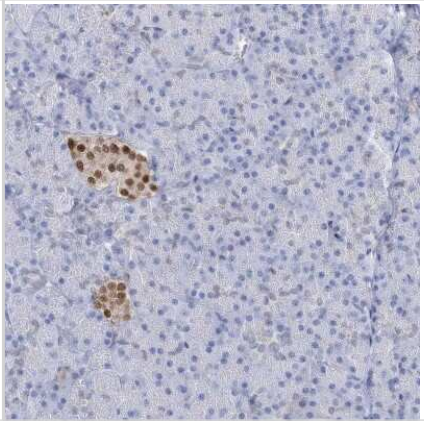
Immunocytochemistry/Immunofluorescence: NKX6.1 Antibody [NBP1-82553] - Staining of human cell line U-251 MG shows localization to nucleoplasm. Antibody staining is shown in green.



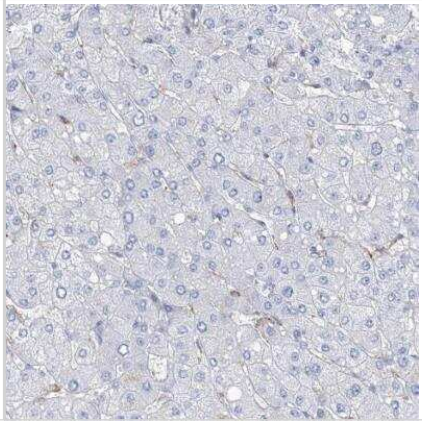
Immunocytochemistry/Immunofluorescence: NKX6.1 Antibody [NBP1-82553] - Wnt-modulation influences the distribution of mono-hormonal and bi-hormonal S7 cells. IF analysis of NKX6.1+ (red), PDX1+ (green) cells and NKX6.1+/PDX1+ cells (yellow). Scale bar upper panel: 25 um, lower panel: 7.5 um. Image collected and cropped by CiteAb from the following publication (https://www.frontiersin.org/article/10.3389/fendo.2019.00293/full), licensed under a CC-BY license.



Immunohistochemistry-Paraffin: NKX6.1 Antibody [NBP1-82553] - Immunohistochemical staining of human pancreas shows strong nuclear positivity in islets of Langerhans.



Immunohistochemistry-Paraffin: NKX6.1 Antibody [NBP1-82553] - Staining of human liver shows no positivity as expected.



Publications

J Siehler, AK Blöchinger, M Akgün, X Wang, A Shahryari, A Geerlof, H Lickert, I Burtscher Generation of a heterozygous C-peptide-mCherry reporter human iPSC line (HMGUi001-A-8) Stem Cell Research, 2020-12-16;50 (0):102126. 2020-12-16 [PMID: 33373890]

AK Blöchinger, J Siehler, K Wißmiller, A Shahryari, I Burtscher, H Lickert Generation of an INSULIN-H2B-Cherry reporter human iPSC line Stem Cell Res, 2020-04-22;45(0):101797. 2020-04-22 [PMID: 32361463]

Maachi H, Ghislain J, Tremblay C et Al. Pronounced proliferation of non-beta cells in response to beta-cell mitogens in isolated human islets of Langerhans Sci Rep 2021-05-28 [PMID: 34050242]

Qiao J, Zhang Z, Ji S et Al. A distinct role of STING in regulating glucose homeostasis through insulin sensitivity and insulin secretion Proc Natl Acad Sci U S A 2022-02-10 [PMID: 35145023]

Hermann FM, Kjaergaard MF, Tian C et al. An insulin hypersecretion phenotype precedes pancreaticb cell failure in MODY3 patient-specific cells Cell stem cell 2022-12-19 [PMID: 36563694]

Ghila L, Bjorlykke Y, Legoy TA et al. Bioinformatic Analyses of miRNA-mRNA Signature during hiPSC Differentiation towards Insulin-Producing Cells upon HNF4 alpha Mutation Biomedicines 2020-06-27 [PMID: 32605028] (ICC/IF, Human)

Legoy TA, Vethe H, Abadpour S et al. Encapsulation boosts islet-cell signature in differentiating human induced pluripotent stem cells via integrin signalling Sci Rep 2020-01-15 [PMID: 31942009] (ICC/IF, Human)

Legoy TA, Ghila L, Vethe H et al. In vivo hyperglycemia exposure elicits distinct period-dependent effects on human pancreatic progenitor differentiation, conveyed by oxidative stress Acta Physiol (Oxf) 2019-12-23 [PMID: 31872528] (IF/IHC, Mouse)

Wang X, Malinowski AR, Beckenbauer J et al. Generation of a human induced pluripotent stem cell line (HMGUi002-A) from a healthy male individual Stem Cell Res 2019-08-07 [PMID: 31419739] (FLOW, Human)

Duijkers FA, McDonald A, Janssens GE et al. The Effect of Wnt Pathway Modulators on Human iPSC-Derived Pancreatic Beta Cell Maturation Front Endocrinol (Lausanne) 2019-05-08 [PMID: 31139151] (ICC/IF, Human)

Wang X, Sterr M, Ansarullah et al. Point mutations in the PDX1 transactivation domain impair human b-cell development and function Mol Metab 2019-03-20 [PMID: 30930126] (FLOW, ICC/IF, Human)

Vethe H, Bjorlykke Y, Ghila LM et al. Probing the missing mature B-cell proteomic landscape in differentiating patient iPSC-derived cells Sci Rep 2017-07-06 [PMID: 28684784] (ICC/IF, Human)

More publications at http://www.novusbio.com/NBP1-82553

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Products Related to NBP1-82553

NBP1-82553PEP	NKX6.1 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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