Aeonian Biotech
Your choice for selective antibodies

Cat nr AE00196 **Product Datasheet**

Mouse Monoclonal Antibody, clone NKX61/2561 to:

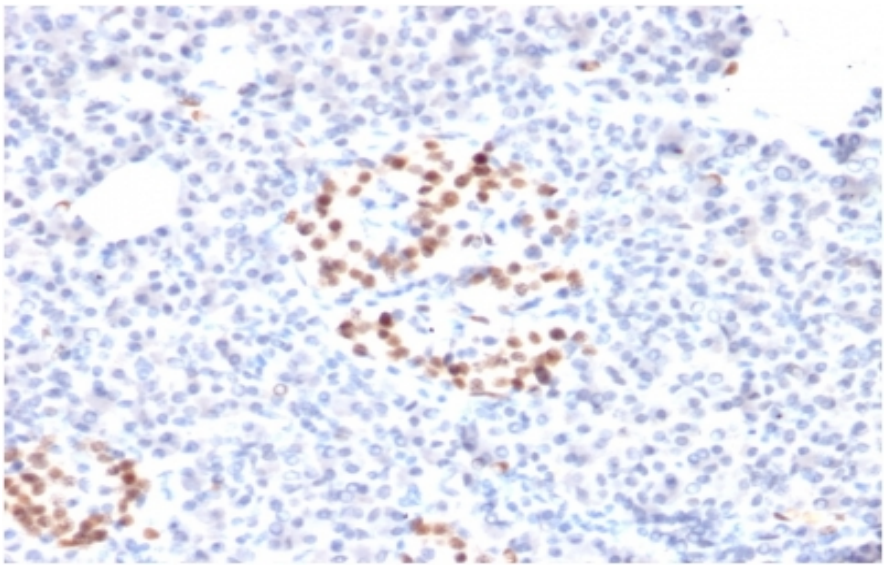
NKX6.1, NK6 homeobox 1

Homeobox protein Nkx-6.1; Homeobox protein NK-6 homolog A; NKX6-1; NKX6.1; Nkx-6.1; NKX6A

Cellular localization	Nucleus
Official Symbol (Gene)	NKX6-1
GeneID	4825
SwissProt	P78426
Confirmed Applications	IHC, PA
Positive controls	Pancreatic beta cells
Aeonian Rating©	80
Purification	By Protein A from bioreactor concentrate
Formulation	☐ 200ug IgG/ml in PBS, 0.05% BSA, 0.05% azide (20ug or 100ug) ☐ 1mg IgG/ml in PBS (100ug or contact us for quotation)
Amount	☐ 20ug ☐ 100ug
Isotype	Mouse IgG2c, kappa
Confirmed species reactivity	Human
Immunogen	Recombinant full length human NKX6.1 protein
Epitope	Unknown
Storage instructions	Avoid repeated freeze/thaw cycles. For long term storage, keep small aliquots at -20C or -80C and keep one aliquot at 4C for daily experimentations. Azide will preserve antibody at 4C for 6-12 months, when kept away from direct sun light.
Expiration	Integrity warranted for 24 months after purchase when handled and stored according to instructions, see below.
Warranty	This product is only warranted for the specifications as described in this product sheet and only when the product is handled and stored according to instructions. User should validate this antibody in the application and tissue/cell type as required, after confirmation of integrity upon receipt is obtained by reproducing the performance as described below. Should such confirmation not be attempted, any warranty is void. In case of non-conformance, user needs to contact us immediately for replacement or refund.
Liability	This product is for in vitro research use only. Any other applications, such as diagnostics or therapeutics, or in vivo experiments, and the validation of this product therein, are solely at the responsibility of the buyer/user.
Product performance	see next pages

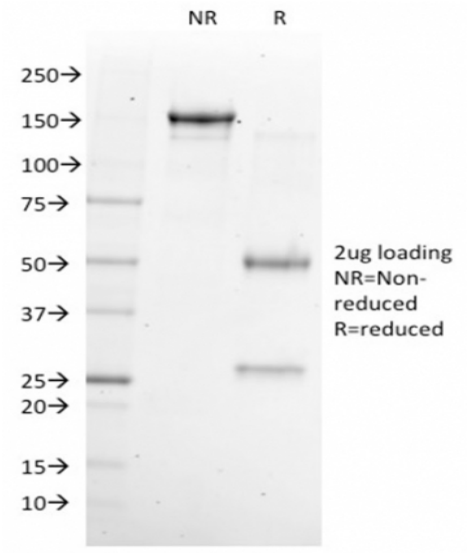
Product data:

ImmunoHistoChemistry (IHC):
This product shows nuclear staining of beta cells in the islets of Langerhans of human pancreas sections.
Recommended concentration: 1-3ug/ml



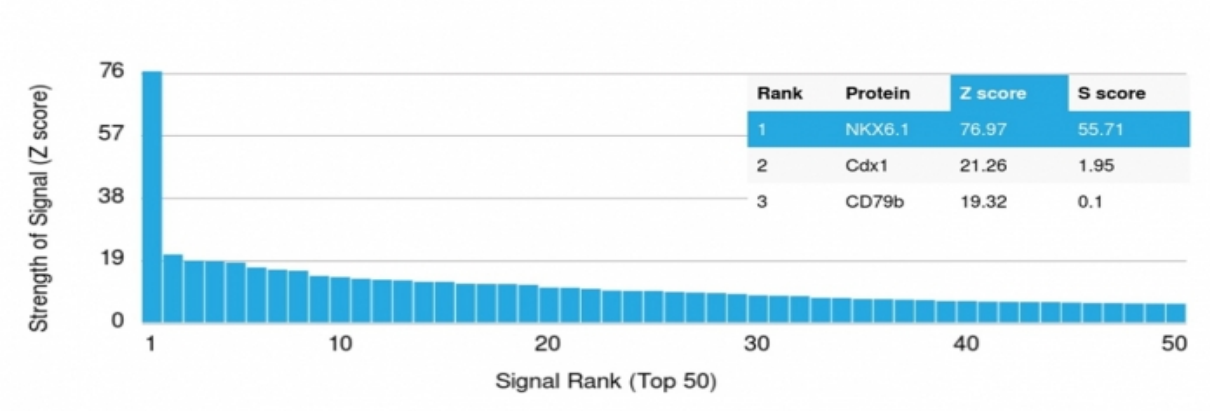
Formaldehyde-fixed, paraffin-embedded human pancreas stained with NKX6.1 Mouse Monoclonal Antibody AE00196 at 1-2ug/ml for 30 minutes at RT. Epitope retrieval: Boiling at pH6 for 10-20 min followed by 20 min cooling. DAB staining by HRP polymer.

SDS-PAGE Analysis of Purified NKX6.1 Mouse Monoclonal Antibody AE00196. Confirmation of Purity and Integrity of Antibody.



Integrity of the purified antibody AE00196 under non-reduced and reduced conditions, showing intact IgG at around 150kDa (NR) and intact heavy and light chains at 50kDa and 26kDa resp. (R).

Specificity and selectivity of AE00196 to NKX6.1 were tested against >19,000 full-length human proteins on a human protein array. A protein BLAST search against H. sapiens revealed the following closely related other protein: NKX6.2 and NKX6.3. These proteins were part of the array used and showed no cross-reactivity signals.



Cross-reactivity assessment of NKX6.1 Mouse Monoclonal Antibody AE00196 (1ug/ml) on CDI's Protein Array containing more than 19,000 full-length human proteins.

The Z-score represents the strength of a signal that an antibody (through a fluorophore-tagged secondary reagent) produces when binding to a particular protein on the array. Z-scores are in units of standard deviations (SD's) above the mean value of all signals generated on that array. When Z-scores are arranged in descending order, the difference between two successive values will be the S-score for the first. Thus, the S-score represents the relative specificity of the antibody to its intended target. An antibody is considered specific to its intended target, when it has an S-score of at least 2.5. For example, if an antibody binds to intended protein X with a Z-score of 43 and to the cross-reacting protein Y with a next Z-score of 14, then the S-score for the antibody to intended target X equals 29 (43-14).