

NKX3-1 Recombinant monoclonal antibody

Catalog Number: 86085-1-RR

Basic Information

Catalog Number:

86085-1-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4070

GenBank Accession Number:

BC074864

GeneID (NCBI):

4824

UNIPROT ID:

Q99801

Full Name:

NK3 homeobox 1

Calculated MW:

234 aa, 26 kDa

Observed MW:

34-38 kDa

Purification Method:

Protein A purification

CloneNo.:

250402B8

Recommended Dilutions:

WB: 1:1000-1:6000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : LNCaP cells,

Background Information

NKX3-1, also named as NKX3.1 and NKX3A, belongs to the NK-3 homeobox family. It is a transcription factor, which binds preferentially the consensus sequence 5'-TAAGT[AG]-3' and can behave as a transcriptional repressor. NKX3-1 plays an important role in normal prostate development, regulating proliferation of glandular epithelium and in the formation of ducts in prostate. It act as a tumor suppressor controlling prostate carcinogenesis, as shown by the ability to inhibit proliferation and invasion activities of PC-3 prostate cancer cells (PMID:19462257). The calculated molecular weight of NKX3-1 is 26 kDa, but modified NKX3-1 is about 32-35 kDa. (PMID: 18597829)

Storage

Storage:

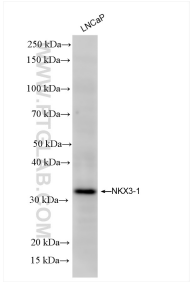
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

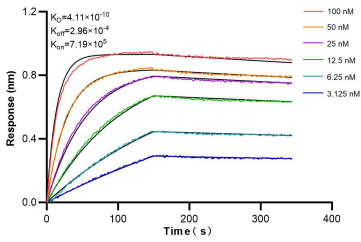
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



LNCaP cells were subjected to SDS PAGE followed by western blot with 86085-1-RR (NKX3-1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86085-1-RR against Human NKX3-1 were performed. The affinity constant is 0.411 nM.