For Research Use Only

# NKD2 Polyclonal antibody

Catalog Number:16699-1-AP Featured Product 4 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

## Basic Information

Catalog Number:
16699-1-AP

Size:
150ul , Concentration: 300 ug/ml by Nanodrop and 293 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10094

GenBank Accession Number:
BC012176

GeneID (NCBI):
85409

UNIPROT ID:
Q969F2

Full Name:
naked cuticle homolog 2 (Drosophila)

Calculated MW:
50 kDa

Observed MW:
59 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:200-1:1000

## Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB, IP, CoIP

Species Specificity:
human, mouse, rat

Cited Species:
human

Positive Controls:

WB : mouse kidney tissue, HEK-293 cells, mouse colon tissue

## Background Information

Naked2 (protein naked cuticle homolog 2), encoded by NKD2 gene, was identified as a cell autonomous antagonist of the canonical Wnt signaling pathway. Naked2 acts as a cargo recognition and targeting protein to ensure proper delivery and fusion of TGF-alpha-containing vesicles to a distinct region at the basolateral surface of polarized epithelial cells (PMID: 17553928). EGFR-independent action of TGF-alpha protects Naked2 from proteasomal degradation, thus ensuring its delivery to the basolateral surface (PMID: 18757723). Myristoylated Naked2 antagonizes Wnt-beta-catenin activity possibly by degrading Dishevelled-1 at the plasma membrane (PMID: 20177058).

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| S Zhao | 25579177 | Oncogene | WB |
| Weiran Xu | 29424266 | Biosci Biotechnol Biochem | WB |
| Chengcai Wang | 39714941 | Rejuvenation Res | WB,IP,CoIP |

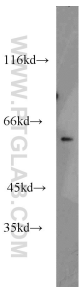
## Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

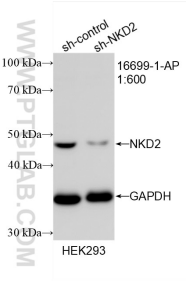
*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

## Selected Validation Data




mouse kidney tissue were subjected to SDS PAGE followed by western blot with 16699-1-AP (NKD2 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.




WB result of NKD2 antibody (16699-1-AP; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-NKD2 transfected HEK-293 cells.