

## CD13 polyclonal antibody

Catalog: NCP0174P

Host: Rabbit

Reactivity: Human,Rat,Mouse

### BackGround:

Aminopeptidase N (APN, CD13) is a widely expressed, membrane-bound proteolytic enzyme that breaks down peptides during digestion, cleaves cell surface antigens during antigen presentation, and acts as a receptor for human viruses, including several coronaviruses. This multifunctional protein is implicated in the regulation of many biological processes, including angiogenesis, cell proliferation, cell migration, inflammation and immune response. APN was originally identified as the cell surface antigen CD13, which is expressed in myeloid lineage hematopoietic cells and myeloid leukemia. Identified substrates of aminopeptidase N include the angiotensin I-III peptide hormones, the opioid peptide met-enkephalin, and cytokines MCP-1 and MIP-1. Abnormal APN protein expression is seen in various forms of cancer, with high APN expression associated with poor survival in colon cancer and non-small cell lung cancer and silenced APN expression related to poor prognosis in prostate cancer.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2.

### Molecular Weight:

~ 150 kDa

### Swiss-Prot:

P15144

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:2000~1:5000

IF 1:50~1:200

IP 1:50 - 1:200

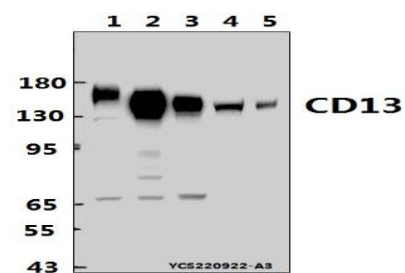
### Storage&Stability:

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

### Specificity:

CD13 polyclonal antibody detects endogenous levels of CD13 protein.

### DATA:



Western blot (WB) analysis of CD13 polyclonal antibody at 1:2000 dilution

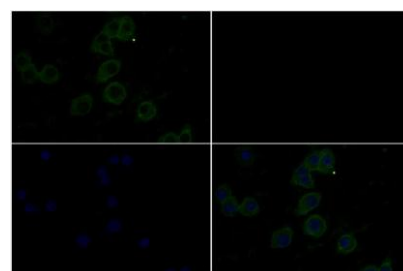
Lane1:THP-1 whole cell lysate(30ug)

Lane2:Panc1 whole cell lysate(30ug)

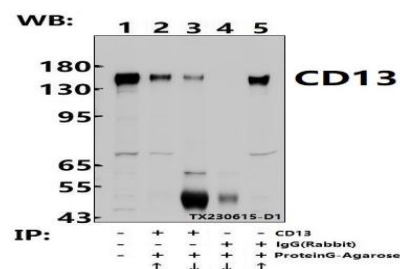
Lane3:A375 whole cell lysate(30ug)

Lane4:The Liver tissue lysate of Mouse(30ug)

Lane5:The Lung tissue lysate of Rat(30ug)



Immunofluorescence analysis of A375 cells using CD13 pAb at dilution of 1:200.



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## PRODUCT DATA SHEET

Bioworld Technology, Inc.

Immunoprecipitation of A549 cell membrane lysates using CD13 pAb (Sepharose Bead Conjugate)#BD0048 (lane 2 and lane 3) and Nonspecific IgG Control (Sepharose Bead Conjugate)#BD0048 (lane 4 and lane5) .Lane 1 is 30% input. The western blot was probed using CD13 pAb.

### Note:

For research use only, not for use in diagnostic procedure.

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