

# HB9 Polyclonal antibody

Catalog Number: 20975-1-AP

## Basic Information

**Catalog Number:**

20975-1-AP

**Size:**

150ul , Concentration: 300 µg/ml by Nanodrop and 247 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_005515

**GeneID (NCBI):**

3110

**UNIPROT ID:**

P50219

**Full Name:**

motor neuron and pancreas homeobox 1

**Calculated MW:**

41 kDa

**Observed MW:**

45-50 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

human, mouse

**Positive Controls:**

WB : mouse spleen tissue, mouse liver tissue

## Background Information

Motor neuron and pancreas homeobox (MNX1) is a homologous box transcription factor that promotes motor neuron differentiation and pancreatic development. MNX1 knockout in mice indicated that only the early expression of MNX1 is associated with the formation of pancreatic buds, and MNX1 is expressed in late  $\beta$  cells and associated with  $\beta$  cell maturation. MNX1 has the ability to induce endocrine progenitor cells to differentiate into  $\beta$  cells and inhibit their ability to differentiate into  $\alpha$  cells, thereby maintaining the balance between  $\alpha$  and  $\beta$  cells. In addition, the association between MNX1 gene mutations and Currarino syndrome has also been demonstrated. The Currarino syndrome phenotype caused by a MNX1 mutations was demonstrated to be a result of haploinsufficiency. A recent study also indicated that MNX1 may be an oncogene in prostate cancer (PMID: 30066929).

## 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

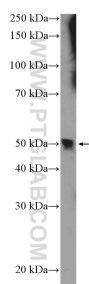
For technical support and original validation data for this product please contact:

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## Selected Validation Data



mouse spleen tissue were subjected to SDS PAGE followed by western blot with 20975-1-AP (HB9 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.