

For Research Use Only

# PAX3 Polyclonal antibody

Catalog Number: 21386-1-AP **1 Publications**



## Basic Information

**Catalog Number:**

21386-1-AP

**Size:**

700 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG16021

**GenBank Accession Number:**

BC101301

**GeneID (NCBI):**

5077

**UNIPROT ID:**

P23760

**Full Name:**

paired box 3

**Calculated MW:**

484 aa, 53 kDa

**Observed MW:**

56-60 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:3000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

## Applications

**Tested Applications:**

IP, WB, ELISA

**Cited Applications:**

IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

hamster

**Positive Controls:**

WB : mouse skin tissue, HEK-293 cells

IP : mouse skin tissue,

## Background Information

PAX3, a transcription factor and multifunctional regulatory protein, is normally expressed during embryonic development. In the nervous system, PAX3 is involved in neural tube closure, neural crest development, and peripheral neuron differentiation. In the present study, PAX3 was reported as a novel regulator of GFAP transcription, and the overexpression and suppression of PAX3 could inhibit and promote NSC differentiation, respectively. In muscle development, PAX3 ensures the survival of myogenic progenitor cells with Pax3-expressing progenitors giving rise to both skeletal and smooth muscle cells. PAX3 also has a well-established role in the development of melanocytes during embryogenesis, and has recently been characterized as a molecular switch in the mature melanocyte. Mutations in PAX3 can cause Waardenburg syndrome.

## Notable Publications

Author	Pubmed ID	Journal	Application
Chuanhui Yin	32949110	Birth Defects Res	IHC

## 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

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

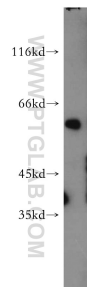
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

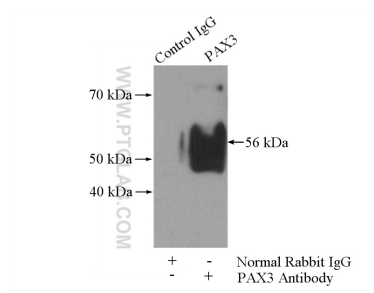
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



mouse skin tissue were subjected to SDS PAGE followed by western blot with 21386-1-AP (PAX3 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-PAX3 (IP:21386-1-AP, 4ug; Detection:21386-1-AP 1:500) with mouse skin tissue lysate 3200ug.