

For Research Use Only

PAX3 Polyclonal antibody

Catalog Number: 21386-1-AP

3 Publications



Basic Information

Catalog Number:

21386-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop and 593 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, IP, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, 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
Meng-Han Zhang	39758702	Stem Cells Int	WB
Li Zhang	39307459	Neurochem Int	WB

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

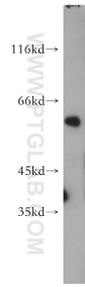
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

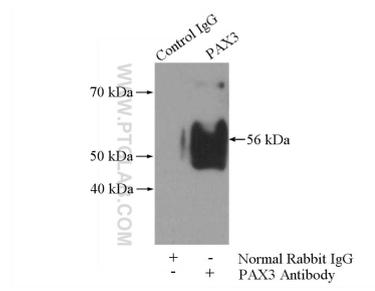
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.