

For Research Use Only

PAX3 Polyclonal antibody

Catalog Number: 51036-2-AP **2 Publications**



Basic Information

Catalog Number: 51036-2-AP	GenBank Accession Number: BC114363	Purification Method: Antigen affinity purification
Size: 213 µg/ml	GeneID (NCBI): 5077	Recommended Dilutions: WB 1:200-1:1000 IHC 1:400-1:1600
Source: Rabbit	UNIPROT ID: P23760	
Isotype: IgG	Full Name: paired box 3	
Immunogen Catalog Number: AG0477	Calculated MW: 120 kDa Observed MW: 56 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : mouse skin tissue, A375 cells, HepG2 cells, K-562 cells IHC : rat brain tissue,
Cited Applications: WB	
Species Specificity: human, mouse	
Cited Species: mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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
Kelei Li	34606561	Food Funct	WB
Kelei Li	36039894	J Agric Food Chem	WB

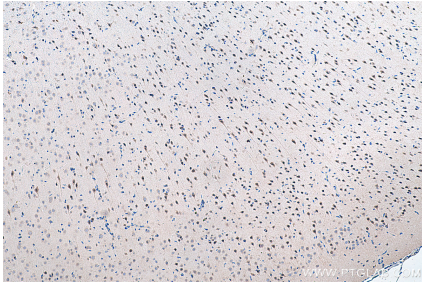
Storage

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

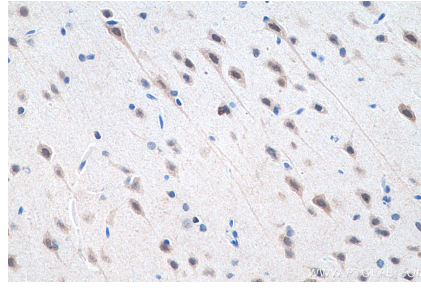
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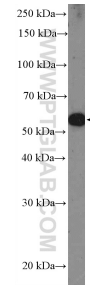
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 51036-2-AP (PAX3 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 51036-2-AP (PAX3 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



mouse skin tissue were subjected to SDS PAGE followed by western blot with 51036-2-AP (PAX3 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.