

For Research Use Only

# PAX3 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87980-1-PBS



## Basic Information

<b>Catalog Number:</b> 87980-1-PBS	<b>GenBank Accession Number:</b> BC101301	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5077	<b>CloneNo.:</b> 253577F9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P23760	
<b>Isotype:</b> IgG	<b>Full Name:</b> paired box 3	
<b>Immunogen Catalog Number:</b> AG16021	<b>Calculated MW:</b> 484 aa, 53 kDa	
	<b>Observed MW:</b> 53-56 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human, mouse

## 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.

## Storage

**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

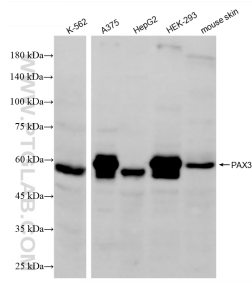
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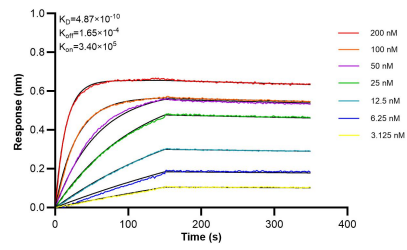
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87980-1-RR (PAX3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87980-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 87980-1-RR against Human PAX3 were performed. The affinity constant is 0.487 nM.