

## PAX3 Antibody

Mouse Monoclonal Antibody [Clone PAX3/8424]

Catalog No	Format	Size
5077-MSM4-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5077-MSM4-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5077-MSM4-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

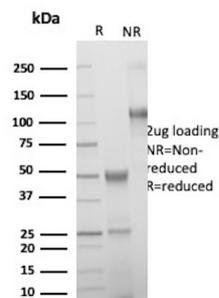
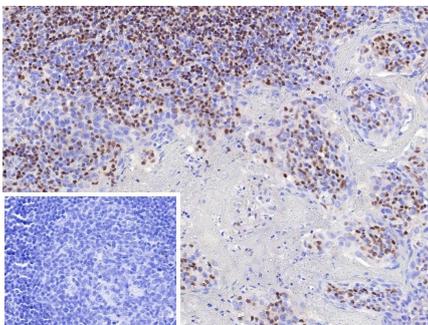
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

### Product Details

<b>Clone</b>	PAX3/8424
<b>Gene Name</b>	PAX3
<b>Immunogen</b>	Recombinant fragment (around aa150-350) of human PAX3 protein (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	56kDa
<b>Cellular Localization</b>	Nucleus
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Human skin and skeletal muscle tissue. Brain.

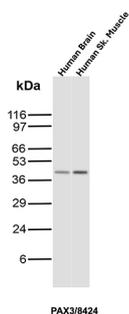
\*Optimal dilution for a specific application should be determined.

### Product Images for PAX3 Antibody

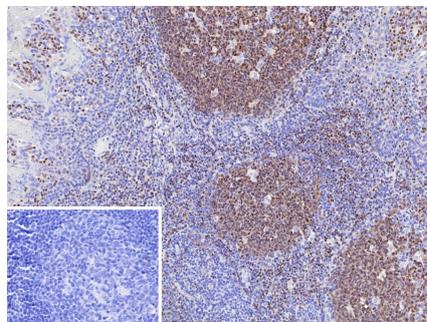


Formalin-fixed, paraffin-embedded human tonsil stained with PAX3 Mouse Monoclonal Antibody (PAX3/8424). Inset: PBS instead of primary antibody; secondary only negative control.

SDS-PAGE Analysis of Purified Paired box protein Pax-3 Mouse Monoclonal Antibody (PAX3/8424). Confirmation of Purity and Integrity of Antibody.



Western Blot Analysis of Human Brain and Human Skeletal muscle lysates using PAX3 Mouse Monoclonal Antibody (PAX3/8424).



Formalin-fixed, paraffin-embedded human tonsil stained with PAX3 Mouse Monoclonal Antibody (PAX3/8424). Inset: PBS instead of primary antibody; secondary only negative control.

### Specificity & Comments

Pax genes contain paired domains that share strong homology to genes in *Drosophila* which are involved in programming early development. The product of the PAX3 gene is a DNA-binding protein expressed during early neurogenesis. Pax-3 is a protein containing both a paired domain and a paired-type homeodomain. During early neurogenesis, Pax-3 expression is limited to mitotic cells in the ventricular zone of the developing spinal cord and to distinct regions in the hindbrain, midbrain and diencephalon. In 10-12 day embryos, expression of Pax-3 is also seen in neural crest cells of the developing spinal ganglia, the craniofacial mesectoderm and in limb mesenchyme. Mutations in the MITF and Pax-3 genes, encoding transcription factors, are responsible for Waardenburg syndrome II (WSII) and WSI/WSIII, respectively.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

### Research Areas

Cardiovascular, Mesenchymal Stem Cell Differentiation, Nuclear Marker