PAX6 (Stem Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone PAX6/7710]

Catalog No	Format	Size
5080-MSM10-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5080-MSM10-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5080-MSM10-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

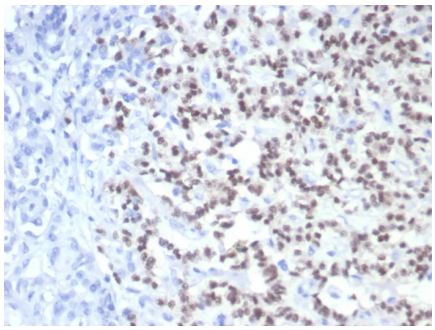
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

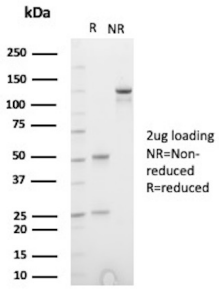
Clone	PAX6/7710
Gene Name	PAX6
Immunogen	Recombinant fragment (N-terminus; aa 1-300) of human PAX6 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	47kDa
Cellular Localization	Nucleus.
Species Reactivity	Human
Positive Control	Human pancreas or cerebellum.

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

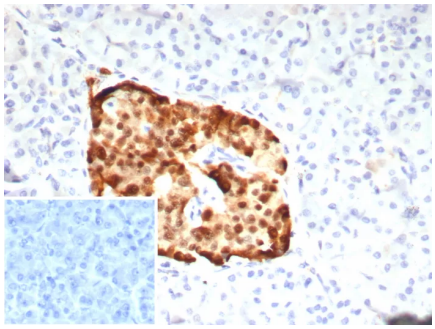
Product Images for PAX6 (Stem Cell Marker) Antibody



Formalin-fixed, paraffin-embedded human pancreatic cancer stained with PAX6 Mouse Monoclonal Antibody (PAX6/7710). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.



SDS-PAGE Analysis of Purified PAX6 Mouse Monoclonal Antibody (PAX6/7710). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human pancreas stained with PAX6 Mouse Monoclonal Antibody (PAX6/7710). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

Pax genes contain paired domains with strong homology to genes in Drosophila, which are involved in programming early development. Lesions in the Pax-6 gene account for most cases of aniridia, a congenital malformation of the eye, chiefly characterized by iris hypoplasia, which can cause blindness. Pax-6 is involved in other anterior segment malformations besides aniridia, such as Peters anomaly, a major error in the embryonic development of the eye with corneal clouding with variable iridolenticulocorneal adhesions. The Pax-6 gene encodes a transcriptional regulator that recognizes target genes through its paired-type DNA-binding domain. The paired domain is composed of two distinct DNA-binding subdomains, the amino-terminal subdomain and the carboxy-terminal subdomain, which bind respective consensus DNA sequences. The human Pax-6 gene produces two alternatively spliced isoforms that have the distinct structure of the paired domain.

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

Developmental Biology, Neural Stem Cells, Nuclear Marker, Stem Cell Differentiation

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.