PAX6 (Stem Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone SPM612]

Catalog No	Format	Size
5080-MSM2X-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5080-MSM2X-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5080-MSM2X-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

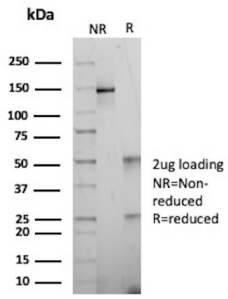
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

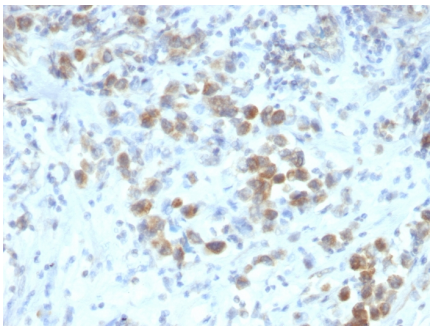
Clone	SPM612
Gene Name	PAX6
Immunogen	Recombinant fragment (N-terminus; aa 1-300) of human PAX6 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	47kDa
Cellular Localization	Nucleus
Species Reactivity	Human
Positive Control	Cerebellum or Stomach., Pancreas

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

Product Images for PAX6 (Stem Cell Marker) Antibody



SDS-PAGE Analysis of Purified Paired box protein Pax-6 Mouse Monoclonal Antibody (SPM612). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human Gastric Carcinoma stained with PAX6 Monoclonal Antibody (SPM612).

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

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

Limitations and Warranty