Recombinant PAX6 (Stem Cell Marker) Antibody

Rabbit Monoclonal Antibody [Clone PAX6/8578R]

Catalog No	Format	Size
5080-RBM17-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5080-RBM17-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5080-RBM17-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

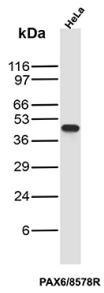
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

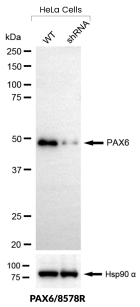
Clone	PAX6/8578R
Immunogen	Recombinant fragment (around aa133-241) of the human PAX6 protein (exact sequence is proprietary)
Host	Rabbit
Clonality	Monoclonal
Isotype / Light Chain	IgG / Kappa
Mol. Weight of Antigen	46.68kDa
Cellular Localization	Nucleus
Species Reactivity	Human
Positive Control	Human pancreas or cerebellum. HeLa

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

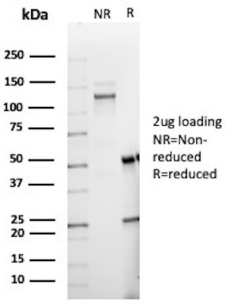
Product Images for Recombinant PAX6 (Stem Cell Marker) Antibody



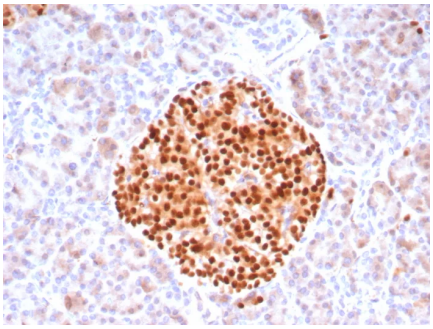
Western Blot analysis of HeLa cell lysate using PAX6 Recombinant Rabbit Monoclonal Antibody (PAX6/8578R).



Western Blot validation of anti-PAX6 antibody. PAX6 protein expression was compared in wild-type (WT) and PAX6 shRNA Knockdown (KD) HeLa cells (30ug of total protein). Loading control is shown below.



SDS-PAGE Analysis of Purified Paired box protein Pax-6 Recombinant Rabbit Monoclonal Antibody (PAX6/8578R). Confirmation of Purity and Integrity of Antibody.



Formalin-fixed, paraffin-embedded human pancreas stained with PAX6 Recombinant Rabbit Monoclonal Antibody (PAX6/8578R). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

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 produced in a mammalian-based expression system. 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.

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.