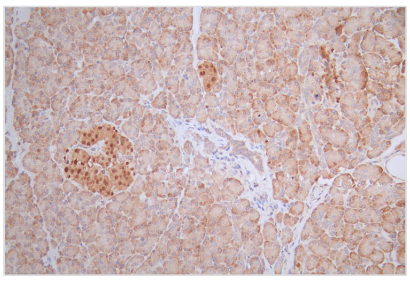
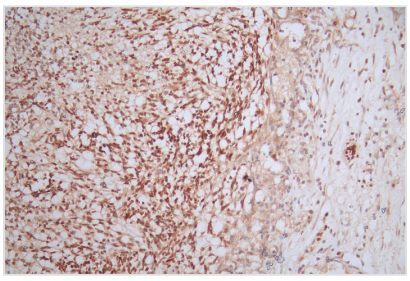
PAX6 Recombinant Monoclonal Antibody

Product Code	CSB-RA577229A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P26367
Immunogen	A synthesized peptide derived from Human PAX6
Species Reactivity	Human
Tested Applications	ELISA, IHC, FC; Recommended dilution: IHC:1:50-1:200, FC:1:50-1:200
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling?Neuroscience;Developmental biology;Signal transduction?Stem cells
Gene Names	PAX6
Clone No.	22C3

Image



IHC image of CSB-RA577229A0HU diluted at 1:100 and staining in paraffin-embedded human pancreati tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.55% DAB.



IHC image of CSB-RA577229A0HU diluted at 1:100 and staining in paraffin-embedded human glioma cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and

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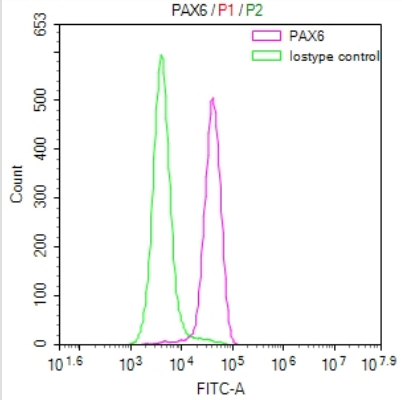

Overlay Peak curve showing SH-SY5Y cells stained with CSB-RA577229A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1μg/1*10^{6}cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG (1μg/1*10^{6}cells) used under the same conditions. Acquisition of >10,000 events was performed.

Description

In vitro expression systems are used to generate the PAX6 recombinant monoclonal antibody, involving the cloning of PAX6 antibody DNA sequences from immunoreactive rabbits. The immunogen used is a synthesized peptide derived from the human PAX6 protein. Subsequently, the genes encoding the PAX6 antibodies are inserted into plasmid vectors, and these recombinant plasmid vectors are transfected into host cells to enable antibody expression. The PAX6 recombinant monoclonal antibody then undergoes affinity-chromatography purification and is thoroughly tested for functionality in ELISA, IHC, and FC applications, confirming its reactivity with the human PAX6 protein.

PAX6 is a transcription factor that is crucial for the development of the eye, central nervous system, and other tissues. Its functions are essential for the formation and maintenance of various structures in the body, and its dysregulation can lead to developmental disorders and vision-related conditions.