

Human Pax6 PE-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: IC8150P

100 Tests

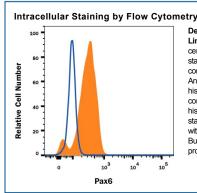
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Pax6 in direct ELISAs. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) Pax1, rhPax2, rhPax3, rhPax4, rhPax5, and rhPax7 is observed.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant human Pax6 Met1-Arg272 Accession # P26367		
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 nm		
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (SDS) for additional information and handling instructions.		

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	10 μL/10 ⁶ cells	See Below

DATA



Detection of Pax6 in HeLa Human Cell Line by Flow Cytometry. HeLa human cervical epithelial carcinoma cell line was stained with Sheep Anti-Human Pax6 PE-conjugated Affinity-Purified Polyclonal Antibody (Catalog # IC8150P, filled histogram) or Sheep IgG PE-conjugated control Antibody (Catalog # IC016P, open histogram). To facilitate intracellular staining, cells were fixed and permeabilized with FlowX FoxP3 Fixation & Permeabilization Buffer Kit (Catalog # FC012). View our protocol for Staining Intracellular Molecules.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below

Stability & Storage

Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Pax6 (paired box 6; also Oculorhombin) is a 48-50 kDa member of the paired homeobox family of transcription factors. It is expressed in developing optic vesicle, olfactory dopaminergic neurons, and pancreatic endocrine cells. Pax6 is a transactivating protein that interacts with MAF, CDX2 and SOX2. Human Pax6 is 422 amino acids (aa) in length. It contains an N-terminal paired box DNA-binding domain (aa 4-130), a Gly-rich central region (aa 131-209), a homeodomain (aa 213-269) and a C-terminal Pro/Ser/Thr-rich regulatory domain (aa 279-422). Phosphorylation of the C-terminal domain at Thr281/304/373 promotes Pax6 activity. Multiple splice forms of Pax6 exist. There are alternative start sites at Met137 and a position 34 aa upstream of the standard site. There is also a deletion of aa 22-26 and 37-39, plus a 14 aa insertion after Gln47 that generates a C-terminal DNA binding site. Human and mouse Pax6 are absolutely identical in aa sequence.

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