

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Pax6 in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Pax6 Met1-Arg272 Accession # P26367
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Intracellular Staining by Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.

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.

PRODUCT SPECIFIC NOTICES

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