

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Pax2 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Pax2 Asp229-Pro363 Accession # Q02962
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.
Immunohistochemistry	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

Pax2 is a 40-45 kDa protein belonging to the small but developmentally important family of transcription regulators. Human Pax2 is a 416 amino acid (aa) residue protein with an N-terminal 128 aa DNA-binding paired box domain, a centrally-located octapeptide motif and a C-terminal truncated homeodomain. Based on the presence of the structural domains, Pax2 belongs to subgroup 2 in the Pax family. Pax2 is important for stem cell survival and lineage commitment during development. Pax2 is also expressed in various carcinomas where it seems to mediate anti-apoptotic functions. At least five splice isoforms of human Pax2 have been described within the region used as immunogen (shared by all isoforms). Human and mouse Pax2 share 98% aa sequence identity.

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