

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PITX2 in direct ELISAs. In direct ELISAs, less than 5% cross-reactivity with recombinant human PITX1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PITX2 Ala149-Val317 Accession # Q99697
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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

PITX2 (PITuitary homeoboX 2; also ARP1 and RIEG) is a 33-36 kDa nuclear member of the bicoid subfamily, paired homeobox family of transcription factors. It is widely expressed in the embryo, and serves as the earliest known marker for pituitary gland development. A long isoform commonly called PITX2C also plays a very key role in the establishment of left-right organ asymmetry. PITX2 appears in multiple germ layer derivatives, and it appears that one of its important functions is to integrating retinoic acid and Wnt/β-catenin signaling. The N- and C-terminal regions of PITX2 normally interact noncovalently, rendering PITX2 inactive. Over aa 149-317, human and mouse PITX2 are identical in aa sequence.

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