

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TBX18 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) TBX2, 3, 5, 6, 20, or rhT-bet is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 635305
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human TBX18 Ala384-Ser504 Accession # O95935
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

Immunocytochemistry 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

TBX18 is a 607 amino acid, 65 kDa (predicted) protein that is a member of the T-box family of developmentally expressed transcription factors. It is developmentally expressed in the anterior portion of the head, somites and limb buds. It is expressed on pluripotent progenitors in the developing epicardium where it is required for formation of the cardiac AV node, and can also contribute to fibroblast and smooth muscle formation. Within the region used as an immunogen, human TBX18 shares 93% amino acid identity with mouse and rat TBX18.

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