

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse TBX5 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human TBX5 Lys253-Lys327 Accession # Q99593
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.

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

TBX5 (T-box protein 5) is a 64 kDa member of the T-box family of transcriptional regulators. It is expressed in both embryo and adult, and is particularly important in the development of the heart and upper limb. TBX5 is a transcriptional activator and influences the expression of FGF-10 and NPPA/ANF. Human TBX5 is 518 amino acids (aa) in length. It contains one T-box DNA-binding domain (aa 58-238), a transactivation motif (Glu349GluAsp351), and an NLS (aa 339-379). There are multiple splice forms. One 35 kDa isoform shows a RPLL substitution for aa 252-518, generating a TBX5 antagonist. Other isoforms show an alternative start site at Met51, a 136 aa substitution for aa 445-518, a 33 aa substitution for aa 360-518, a 22 aa substitution for aa 328-518, and a 41 aa substitution for aa 7-49. Over aa 253-327, human TBX5 shares 95% aa identity with mouse TBX5.

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