

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TBX20 in ELISA.
Source	Monoclonal Mouse IgG _{2A} Clone # 668710
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human TBX20 Met1-Leu116 Accession # Q9UMR3
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.

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

TBX20 (T-box transcription factor 20) is a transcriptional activator and repressor that is essential for cardiac development and to adult cardiomyocyte function. Mutation in humans or mice can result in congenital heart disease, including septation, chamber, and valvulogenesis defects and dilated cardiomyopathy. These include atrial septal defect 4 (ASD4). The 447 amino acid (aa) human TBX20 contains a T-box DNA binding domain at aa 109-228. Between aa 1-116, human TBX20 shares 96% aa sequence identity with mouse TBX20. One isoform that is truncated at aa 297 has been described.

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