Human TBX2 Alexa Fluor® 647-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 393720

Catalog Number: FAB50401R

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human TBX2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) TBX3, rhTBX6, or rhT-bet is observed.
Source	Monoclonal Rat IgG_{2A} Clone # 393720
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human TBX2 Thr593-Arg702 Accession # Q13207
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

T-box protein 2 (TBX2) is a member of the T-box family of transcription factors and functions in the transcriptional regulation of genes required for mesoderm differentiation and limb bud pattern formation. The 74 kDa (predicted MW) nuclear protein, like other T-box family members, contains a T-domain which is involved in DNA binding and dimerization of the protein (aa 99-277). Human TBX2 shows 96%, 95%, and 71% amino acid identity with dog, mouse, and *Xenopus tropicalis* TBX2, respectively.

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