

Human TBX2 Antibody

Monoclonal Rat IgG_{2B} Clone # 393725 Catalog Number: MAB5040

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects endogenous human TBX2 in Western blots at approximately 75 kDa.	
Source	Monoclonal Rat IgG _{2B} Clone # 393725	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human TBX2 Thr593-Arg702 Accession # Q13207	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

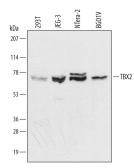
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	See Below

DATA

Western Blot



Detection of Human TBX2 by Western Blot. Western blot shows lysates of HER293T human embryonic kidney cell line, JEG-3 human epithelial choriocarcinoma cell line, NTera-2 human testicular embryonic carcinoma cell line, and BG0IV human embryonic stem cells. PVDF membrane was probed with 0.1 µg/mL of Human TBX2 Monoclonal Antibody (Catalog # MAB5040) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for TBX2 at approximately 75 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

ShippingThe product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 $^{\circ}$ C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TBX2 (T-box transcription factor 2) is a member of a family of transcription factors that share the T-box DNA binding domain. TBX2, as well as other TBX proteins, is involved in remodeling of the heart myocardium through a complex spatial and temporal regulation. TBX2 is associated with tumorigenesis and anti-senescence properties by affecting several cyclin-dependent kinase inhibitors. The full-length protein contains 702 amino acids with a DNA binding domain from aa 99 to aa 277.

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