

Anti-TBX1 Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Dog,Pig,Cow,Horse)
Molecular Weight:	Theoretical: 43 kDa. Actual: 43 kDa.
Purification:	Protein A purified

Applications

1. Sample: Brain (Rat) Lysate at 40 µg
Primary: Anti-TBX1 (TMAB-13404) at 1/300 dilution
Secondary: HRP conjugated Goat-Anti-rabbit IgG at 1/5000 dilution
Predicted band size: 43 kD
Observed band size: 44 kD
 2. Sample: Muscle (Mouse) Lysate at 40 µg
Primary: Anti-TBX1 (TMAB-13404) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 43 kD
Observed band size: 43 kD
 3. Blank control: K562.
Primary Antibody (green line): Rabbit Anti-TBX1 antibody (TMAB-13404)
Dilution: 2 µg /10⁶ cells;
Isotype Control Antibody (orange line): Rabbit IgG.
Secondary Antibody: Goat anti-rabbit IgG-PE
Dilution: 1 µg /test.
- Verified Activity: Protocol
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.
4. Sample:
Lane 1: Mouse Heart tissue lysates
Lane 2: Rat Heart tissue lysates
Lane 3: Human K562 cell lysates
Lane 4: Human 293T cell lysates
Primary: Anti-TBX1 (TMAB-13404) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 43 kDa
Observed band size: 43 kDa

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Application: WB,FCM
Recommended WB: 1:500-2000; FCM: 2µg/Test

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human TBX1
Antigen Species: Human
Gene ID: 6899
Uniprot ID: O43435

Research Background

This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. This gene product shares 98% amino acid sequence identity with the mouse ortholog. DiGeorge syndrome (DGS) /velocardiofacial syndrome (VCFS), a common congenital disorder characterized by neural-crest-related developmental defects, has been associated with deletions of chromosome 22q11.2, where this gene has been mapped. Studies using mouse models of DiGeorge syndrome suggest a major role for this gene in the molecular etiology of DGS/VCFS. Several alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008].

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