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T-Bet/TBX21 (D6N8B) XP[®] Rabbit mAb (Alexa Fluor[®] 647 Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UL17	Entrez-Gene Id: 30009
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Product Usage Information

Application

Immunofluorescence (Immunocytochemistry)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:400 - 1:1600
1:50

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

T-Bet/TBX21 (D6N8B) XP[®] Rabbit mAb (Alexa Fluor[®] 647 Conjugate) recognizes endogenous levels of total T-Bet/TBX21 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly465 of human T-bet/TBX21 protein.

Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor[®] 647 fluorescent dye and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated T-bet/TBX21 (D6N8B) XP[®] Rabbit mAb #13232.

Background

The *T-box* gene family consists of transcription factors characterized by a related DNA-binding domain (T-box) of approximately 200 amino acids (1,2). The *T-box* genes exhibit diverse temporal and spatial patterns in the developing embryo. Studies have demonstrated members of this family play crucial roles during embryogenesis in a wide range of organisms by regulating cell fate decisions to establish the early body plan and to regulate later processes underlying organogenesis (3-5). Mutations in *T-box* genes are associated with many developmental defects (6). Recent studies also indicate potential roles in cancer by members of the T-box family (7-9).

Background References

1. Wilkinson, D.G. et al. (1990) *Nature* 343, 657-9.
2. Papaioannou, V.E. and Silver, L.M. (1998) *Bioessays* 20, 9-19.
3. Showell, C. et al. (2004) *Dev Dyn* 229, 201-18.
4. Papaioannou, V.E. (2001) *Int Rev Cytol* 207, 1-70.
5. Hoogaars, W.M. et al. (2007) *Cell Mol Life Sci* 64, 646-60.
6. Baldini, A. (2004) *Curr Opin Cardiol* 19, 201-4.
7. Abrahams, A. et al. (2010) *IUBMB Life* 62, 92-102.
8. Rowley, M. et al. (2004) *J Mammary Gland Biol Neoplasia* 9, 109-18.
9. Yang, X.R. et al. (2009) *Nat Genet* 41, 1176-8.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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