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


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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.	
Product 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 <i>T-box</i> gene family consists of transcription factors characterized by a related DNA-binding domain (T-box) of approximately 200 amino acids (1,2). The <i>T-box</i> 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 <i>T-box</i> 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) <i>Nature</i> 343, 657-9. 2. Papaioannou, V.E. and Silver, L.M. (1998) <i>Bioessays</i> 20, 9-19. 3. Showell, C. et al. (2004) <i>Dev Dyn</i> 229, 201-18. 4. Papaioannou, V.E. (2001) <i>Int Rev Cytol</i> 207, 1-70. 5. Hoogaars, W.M. et al. (2007) <i>Cell Mol Life Sci</i> 64, 646-60. 6. Baldini, A. (2004) <i>Curr Opin Cardiol</i> 19, 201-4. 7. Abrahams, A. et al. (2010) <i>IUBMB Life</i> 62, 92-102. 8. Rowley, M. et al. (2004) <i>J Mammary Gland Biol Neoplasia</i> 9, 109-18. 9. Yang, X.R. et al. (2009) <i>Nat Genet</i> 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 M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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