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## T-Bet/TBX21 (D6N8B) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate)


**Cell Signaling**  
TECHNOLOGY®

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<b>Applications:</b> IF-IC, FC-FP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q9UL17	<b>Entrez-Gene Id:</b> 30009
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<b>Product Usage Information</b>	<b>Application</b> Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50 - 1:100 1:50
<b>Storage</b>	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. <i>Do not aliquot the antibody. Protect from light. Do not freeze.</i>	
<b>Specificity / Sensitivity</b>	T-Bet/TBX21 (D6N8B) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of total T-Bet/TBX21 protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly465 of human T-Bet/TBX21 protein.	
<b>Product Description</b>	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 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.	
<b>Background</b>	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).	
<b>Background References</b>	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.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Applications Key</b>	<b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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