۲-bet/TBX21 (V365) Antibody





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| Applications: W, IP | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 65 | Source/Isotype: Rabbit | UniProt ID: #Q9UL17 | Entrez-Gene Id: 30009 | | |
|------------------------------|------------------|---|------------------------|---|------------------------|--------------------------|--|--|
| Product Usage Information | | ApplicationDilutionWestern Blotting1:1000Immunoprecipitation1:50 | | | | | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody. | | | | | | |
| Specificity/Sen | sitivity | T-bet/TBX21 (V365) Antibody detects endogenous levels of total T-bet protein. | | | | | | |
| Source / Purific | cation | Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val365 of human T-bet/TBX21 protein. Antibodies are purified by protein A and peptide affinity chromatography. | | | | | | |
| 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). | | | | | | |
| | | T-bet, also as known as TBX21, plays a critical role in development and maintenance of type 1 helper T (Th1) and T-bet deficient mice display impaired Th1 differentiation (10,11). | | | | | | |
| Background Re | eferences | Wilkinson, D.G. et al. (1990) Nature 343, 657-9. Papaioannou, V.E. and Silver, L.M. (1998) Bioessays 20, 9-19. Showell, C. et al. (2004) Dev Dyn 229, 201-18. Papaioannou, V.E. (2001) Int Rev Cytol 207, 1-70. Hoogaars, W.M. et al. (2007) Cell Mol Life Sci 64, 646-60. Baldini, A. (2004) Curr Opin Cardiol 19, 201-4. Abrahams, A. et al. (2010) IUBMB Life 62, 92-102. Rowley, M. et al. (2009) Nat Genet 41, 1176-8. Ho, I.C. and Glimcher, L.H. (2002) Cell 109 Suppl, S109-20. Peng, S.L. (2006) Cell Mol Immunol 3, 87-95. | | | | | | |
| Species Reactiv | vity | Species reactivity is de | termined by testing | g in at least one approve | ed application (e.g., | western blot). | | |
| Western Blot B | Buffer | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. | | | | | | |
| Applications K | ey | W: Western Blotting IP: Immunoprecipitation | | | | | | |
| Cross-Reactivit | ty Key | H: Human | | | | | | |
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