T-bet/TBX21 (V365) Antibody



Orders:

877-616-CELL (2355) orders@cellsignal.com

Support:

877-678-TECH (8324)

Web:

info@cellsignal.com cellsignal.com

3 Track Lane | Danvers | Massachusetts | 01923 | LISA

		3 Trask Lane Danvers Massachus					
For Research Use Onl	y. Not for Use in	Diagnostic Proc	edures.				
Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 65	Source: Rabbit	UniProt ID: #Q9UL17	Entrez-Gene Id: 30009	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Imi	Immunoprecipitation			1:50		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sens	itivity T-be	T-bet/TBX21 (V365) Antibody detects endogenous levels of total T-bet protein.					
Source / Purificat	resi	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	box in th emb plar asso	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 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.
- 10. Ho, I.C. and Glimcher, L.H. (2002) Cell 109 Suppl, S109-20.
- 11. Peng, S.L. (2006) Cell Mol Immunol 3, 87-95.

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

Western Blot 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 Key WB: Western Blotting IP: Immunoprecipitation

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

Trademarks and **Patents**

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more

3/23/24, 11:16 AM **Limited Uses**

T-bet/TBX21 (V365) Antibody (#5214) Datasheet Without Images Cell Signaling Technology

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.