## 1825 Store at -200

## TCF12/HEB (D2C10) Rabbit mAb



Orders:

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

Support:

877-678-TECH (8324)

Web:

info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 85	Source/Isotype: Rabbit IgG	UniProt ID: #Q99081	Entrez-Gene Id: 6938	
Product Usage Information	Aŗ	Application Dilution					
	We	estern Blotting			1:1000		
	Im	munoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	<b>rity</b> TCI anti	TCF12/HEB (D2C10) Rabbit mAb recognizes endogenous levels of total TCF12/HEB protein. This antibody recognizes the TCF12/HEBCan isoform, but not the TCF12/HEBAlt isoform.					
Species predicted to react based on 100% sequence homology	6	nkey, Bovine, Dog, F	Horse				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly115 of human TCF12 protein.					
Background	bas con incl reg plas ger to h	TCF12/HEB (T cell factor 12/HeLa E-box-binding protein) is a member of the E proteins that are type I basic helix-loop-helix domain-containing transcription factors that bind directly to the E-box DNA consensus sequence and control numerous developmental processes (1,2). E protein family members include E2A, E2-2, and TCF12/HEB. TCF12/HEB forms homo- or heterodimers with other E proteins to regulate transcription of target genes that play a critical role in the development of T cells, B cells, and plasmacytoid dendritic cells (2-4). The <i>TCF12/HEB</i> gene has two transcriptional start sites leading to the generation of the long form called HEBCan, and the short form, HEBAlt (5). The two isoforms are thought to have distinct functions, with HEBCan playing a role throughout T cell development, while HEBAlt functions in the efficient generation of T cell precursors (5).					
Background Referer	2. E	<ol> <li>Murre, C. (2005) <i>Nat Immunol</i> 6, 1079-86.</li> <li>Braunstein, M. and Anderson, M.K. (2012) <i>Clin Dev Immunol</i> 2012, 678705.</li> <li>Quong, M.W. et al. (2002) <i>Annu Rev Immunol</i> 20, 301-22.</li> </ol>					

- 4. Kee, B.L. (2009) Nat Rev Immunol 9, 175-84.
- 5. Wang, D. et al. (2006) J Immunol 177, 109-19.

**Species Reactivity** 

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

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

information.

**Limited Uses** 

TCF12/HEB (D2C10) Rabbit mAb (#11825) 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.