

-20C

Plac8 (E1J2Z) 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: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 13	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NZF1	Entrez-Gene Id 51316
Product Usage Information		Application Western Blotting Immunoprecipitation		Dilution 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Plac8 (E1J2Z) Rabbit mAb recognizes endogenous levels of total Plac8 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro19 of human Plac8 protein.				
Background		The placenta-specific gene 8 (<i>Plac8</i>) encodes a chromatin-binding protein that was first identified from placenta and that is highly expressed in plasmacytoid dendritic cells (1,2). Research studies indicate that Plac8 plays a role in immune function and is essential in the differentiation of brown fat (3,4). During brown fat differentiation, Plac8 interacts with the transcription factor C/EBP β at its promoter sequence to activate the transcription of C/EBP β (4). Experimental deletion of Plac8 in mice leads to impaired innate immune function, abnormal brown fat function, cold intolerance, and obesity (3,4). Additional studies examining the spread of colorectal carcinoma suggest a possible role for Plac8 in cancer invasion, possibly through promoting the epithelial-to-mesenchymal transition seen during tumor progression (5).				
Background References		1. Galaviz-Hernandez, 2. Rissoan, M.C. et al. 3. Ledford, J.G. et al. (2 4. Jimenez-Preitner, M 5. Li, C. et al. (2014)	(2002) <i>Blood</i> 100, 3 2007) <i>J Immunol</i> 17 . et al. (2011) <i>Cell N</i>	295-303. 3, 5132-43. <i>letab</i> 14, 658-70.		
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		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				
		XP is a registered trademark of Cell Signaling Technology, Inc.				
		All other trademarks a more information.	are the property of	their respective owners.	Visit cellsignal.com	/trademarks for
Limited Uses		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				

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

force or effect.

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.