#47061

CELSR2 (D2M9H) XP[®] 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, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 320	Source/Isotype: Rabbit IgG	UniProt ID: #Q9HCU4	Entrez-Gene Id: 1952		
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)			Dilution 1:1000 1:200			
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.				rol and less than		
		For a carrier free (BSA and azide free) version of this product see product #19983.						
Specificity/Sensitivity		CELSR2 (D2M9H) XP [®] Rabbit mAb recognizes endogenous levels of total CELSR2 protein.						
		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His1781 of human CELSR2 protein.						
Background		CELSR2 (cadherin EGF LAG seven-pass G-type receptor, also known as flamingo homolog 3 or epidermal growth factor-like protein 2) is a member of the flamingo subfamily of non-classical cadherins, part of the cadherin superfamily. CELSR2 is a 7-transmembrane helix receptor that contains nine cadherin-like domains, seven EGF-like repeats, and 2 laminin A G-type repeats (1). It shares structural characteristics of both an adhesion molecule and a G protein-coupled receptor, suggesting putatives roles in both cell-cell adhesion and juxtacrine signaling. It's function has been associated with dendrite morphogenesis (2), neural plate anterior-posterior pattern formation (3), and regulation of transcription via the Wnt signaling pathway (4). In a loss-of-function mouse model, Celsr2 deletion resulted in defects in the planar organization of ependymal cilia, leading to defective cerebrospinal fluid dynamics and hydrocephalus (5). In humans, SNPs in the CELSR2 gene cluster on chromosome 1 have been associated with enhanced risk of coronary artery disease (6).						
Background Ro	eferences	1. Vincent, J.B. et al. (2000) <i>DNA Res</i> 7, 233-5. 2. Shima, Y. et al. (2004) <i>Dev Cell</i> 7, 205-16. 3. Devenport, D. and Fuchs, E. (2008) <i>Nat Cell Biol</i> 10, 1257-68. 4. Qu, Y. et al. (2014) <i>Proc Natl Acad Sci U S A</i> 111, E2996-3004. 5. Tissir, F. et al. (2010) <i>Nat Neurosci</i> 13, 700-7. 6. Zhou, Y.J. et al. (2015) <i>Int J Clin Exp Pathol</i> 8, 9543-51.						
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	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.				n 5% w/v BSA, 1X		
Applications K	ey	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivit	ty Key	H: Human						
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
		SignalStain is a registered 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	ı/trademarks for		

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.