

## 58135

## LOX (D8F2K) 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	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 54, 56	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P28300	Entrez-Gene Id: 4015
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
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		LOX (D8F2K) Rabbit mAb recognizes endogenous levels of total LOX protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the human LOX protein.				
Background		Protein-lysin 6-oxidase (LOX) is a secreted copper-dependent amine oxidase and a member of the lysyl oxidase family (1). It primarily catalyzes the oxidation of lysine (or hydroxylysine) residues in collagen and elastin to form peptidyl aldehyde derivatives (2). These modifications are required for further cross-linking of target proteins to enhance extracellular matrix (ECM) stiffness. LOX plays critical roles in vascular, lung, and skin development, and tissue damage repair (3-5). Upregulation of LOX is associated with various diseases, including cancer progression and tissue fibrosis. Aberrant LOX activity creates a favorable tumor microenvironment to promote tumor metastasis and distal colonization (6-8).				
Background References		1. Xiao, Q. and Ge, G. 2. Trackman, P.C. (201 3. Hornstra, I.K. et al. 4. Mäki, J.M. et al. (20 5. Szauter, K.M. et al. 6. Wang, T.H. et al. (2 7. Cox, T.R. et al. (201 8. Reynaud, C. et al. (201	16) Expert Opin Thei (2003) J Biol Chem 2 05) Am J Pathol 167, (2005) Pathol Biol (F 016) Int J Mol Sci 18, 5) Nature 522, 106-	- Targets 20, 935-45. 278, 14387-93. 927-36. Paris) 53, 448-56. 62. doi: 10.3390/ijms18 10.	010062.	
Species Reactivi	ity	Species reactivity is d	letermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human M: Mouse				
Trademarks and	d Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				
		CST is a registered 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		Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST,				

force or effect.

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 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.