

## LOX (D8F2K) Rabbit mAb



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## 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. (2012) <i>Cancer Microenviron</i> 5, 261-73. 2. Trackman, P.C. (2016) <i>Expert Opin Ther Targets</i> 20, 935-45. 3. Hornstra, I.K. et al. (2003) <i>J Biol Chem</i> 278, 14387-93. 4. Mäki, J.M. et al. (2005) <i>Am J Pathol</i> 167, 927-36. 5. Szauter, K.M. et al. (2005) <i>Pathol Biol (Paris)</i> 53, 448-56. 6. Wang, T.H. et al. (2016) <i>Int J Mol Sci</i> 18, 62. doi: 10.3390/ijms18010062. 7. Cox, T.R. et al. (2015) <i>Nature</i> 522, 106-110. 8. Reynaud, C. et al. (2017) <i>Cancer Res</i> 77, 268-278.				
Species Reacti	vity	Species reactivity is d	etermined 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

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