mAb

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Clusterin (D7N2K) XP<sup>®</sup> Rabbit 877-616-CELL (2355) Orders:

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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: React WB, IHC-P F		<b>MW (kDa):</b> 35-42, 65, 75	Source/Isotype: Rabbit IgG	UniProt ID: #P10909	Entrez-Gene Id: 1191		
Product Usage Information	Application Western Blotting Immunohistochemistry				<b>Dilution</b> 1:1000 1:400		
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 / Sensitivity	Clusterin (D7N2K) XP <sup>®</sup>	Clusterin (D7N2K) $XP^{\textcircled{B}}$ Rabbit mAb recognizes endogenous levels of total Clusterin protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser396 of human Clusterin protein.					
Background Background References	tissues. Clusterin function induced proteins to prev- role in Alzheimer's disea which prevents amyloid isoforms are localized to these multiple isoforms involved in membrane r clusterin precursor is por Clusterin α and β chains 1. Poon, S. et al. (2000) 2. Poon, S. et al. (2000) 3. Yerbury, J.J. et al. (2000) 3. Yerbury, J.J. et al. (2000) 5. Desikan, R.S. et al. (2000) 5. Desikan, R.S. et al. (2000) 6. Rosenberg, M.E. and 7. Wilson, M.R. and Eas 8. Trougakos, I.P. and Co 9. Shannan, B. et al. (2000)	Clusterin (CLU, apolipoprotein J) is a multifunctional glycoprotein that is expressed ubiquitously in most tissues. Clusterin functions as a secreted chaperone protein that interacts with and stabilizes stress-induced proteins to prevent their precipitation (1,2). Research studies show that clusterin plays a protective role in Alzheimer's disease by sequestering amyloid $\beta(1-40)$ peptides to form long-lived, stable complexes, which prevents amyloid fibril formation (3-5). In addition to the secreted protein, several intracellular isoforms are localized to the nucleus, mitochondria, cytoplasm, and ER. The subcellular distribution of these multiple isoforms leads to the diversity of clusterin functions. Additional studies report that clusterin is involved in membrane recycling, cell adhesion, cell proliferation, apoptosis, and tumor survival (6-9). The clusterin precursor is post-translationally cleaved into the mature clusterin $\alpha$ and clusterin $\beta$ forms. Clusterin $\alpha$ and $\beta$ chains create a heterodimer through formation of disulfide bonds (10). 1. Poon, S. et al. (2000) <i>Biochemistry</i> 39, 15953-60. 2. Poon, S. et al. (2002) <i>FEBS Lett</i> 513, 259-66. 3. Yerbury, J.J. et al. (2007) <i>FASEB J</i> 21, 2312-22. 4. Narayan, P. et al. (2012) <i>Nat Struct Mol Biol</i> 19, 79-83. 5. Desikan, R.S. et al. (2014) <i>JAMA Neurol</i> 71, 180-7. 6. Rosenberg, M.E. and Silkensen, J. (1995) <i>Int J Biochem Cell Biol</i> 27, 633-45. 7. Wilson, M.R. and Easterbrook-Smith, S.B. (2000) <i>Trends Biochem Sci</i> 25, 95-8. 8. Trougakos, I.P. and Gonos, E.S. (2002) <i>Int J Biochem Cell Biol</i> 34, 1430-48. 9. Shannan, B. et al. (2006) <i>Cell Death Differ</i> 13, 12-9. 10. de Silva, H.V. et al. (1990) <i>Biochemistry</i> 29, 5380-9.					
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 II	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)					
Cross-Reactivity Key	X: Xenopus Z: zebrafish	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>					
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