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Clusterin (D4B6P) Rabbit mAb



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| Applications: W, IP | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 32-42, 65, 75 | Source/Isotype: Rabbit IgG | UniProt ID: #P10909 | Entrez-Gene Id: 1191 |
|-------------------------------|------------------|---|-----------------------------------|--------------------------------------|-----------------------------|--------------------------------|
| 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 | | Clusterin (D4B6P) Rabbit mAb recognizes endogenous levels of total clusterin precursor protein, mature clusterin α chain, and clusterin heterodimer protein. | | | | |
| Source / Purification | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His392 of human clusterin protein. | | | | |
| Background | | 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 β (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 α and clusterin β forms. Clusterin α and β chains create a heterodimer through formation of disulfide bonds (10). | | | | |
| Background References | | Poon, S. et al. (2000) <i>Biochemistry</i> 39, 15953-60. Poon, S. et al. (2002) <i>FEBS Lett</i> 513, 259-66. Yerbury, J.J. et al. (2007) <i>FASEB J</i> 21, 2312-22. Narayan, P. et al. (2012) <i>Nat Struct Mol Biol</i> 19, 79-83. Desikan, R.S. et al. (2014) <i>JAMA Neurol</i> 71, 180-7. Rosenberg, M.E. and Silkensen, J. (1995) <i>Int J Biochem Cell Biol</i> 27, 633-45. Wilson, M.R. and Easterbrook-Smith, S.B. (2000) <i>Trends Biochem Sci</i> 25, 95-8. Trougakos, I.P. and Gonos, E.S. (2002) <i>Int J Biochem Cell Biol</i> 34, 1430-48. Shannan, B. et al. (2006) <i>Cell Death Differ</i> 13, 12-9. de Silva, H.V. et al. (1990) <i>Biochemistry</i> 29, 5380-9. | | | | |
| Species Reacti | vity | Species reactivity is de | etermined by testing | 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/y BSA, 1X | | | | |

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

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