

24840

Cystatin C (D6U3E) Rabbit mAb



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Applications: W, W-S, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 13	Source/Isotype: Rabbit IgG	UniProt ID: #P01034	Entrez-Gene Id: 1471
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation			Dilution 1:1000 1:10 - 1:50	
Storage		Supplied in 10 mM sodi 0.02% sodium azide. St), 150 mM NaCl, 100 μg/ ot aliquot the antibody.	ml BSA, 50% glycer	ol and less than
Specificity/Sensitivity		Cystatin C (D6U3E) Rabbit mAb recognizes endogenous levels of total cystatin C protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human cystatin C protein.				
Background		Cystatin C (cystatin-3, CST3) belongs to the cystatin type 2 superfamily of cysteine peptidase inhibitors (1). The 146 amino acid cystatin C precursor protein contains a 26 residue, amino-terminal secretory signal sequence. The mature 120 amino acid cystatin C protein contains two disulfide bridges (2,3). Cystatin C is secreted in body fluids and is a marker of kidney (4) and cardiovascular (5) dysfunction. Research studies report of changes in cystatin C levels in the cerebral spinal fluid as well as in specific neuronal cell populations in a number of neurodegenerative diseases (6-8). Interestingly, experimental evidence suggests that cystatin C has protective effects against neurodegeneration, such as inhibition of amyloid-β oligomerization and fibril formation (9,10), induction of autophagy (11), induction of neurogenesis (12), and inhibition of cysteine proteases whose activity has been associated with several neurodegenerative diseases (13).				
Background Re	eferences	1. Barrett, A.J. (1986) Biomed Biochim Acta 45, 1363-74. 2. Turk, V. and Bode, W. (1991) FEBS Lett 285, 213-9. 3. Turk, B. et al. (1997) Biol Chem 378, 141-50. 4. Filler, G. et al. (2005) Clin Biochem 38, 1-8. 5. Wang, G.N. et al. (2014) Clin Biochem 47, 176-81. 6. Pasinetti, G.M. et al. (2006) Neurology 66, 1218-22. 7. Deng, A. et al. (2001) Am J Pathol 159, 1061-8. 8. Ishimaru, H. et al. (1996) Brain Res 709, 155-62. 9. Sastre, M. et al. (2004) Neurobiol Aging 25, 1033-43. 10. Selenica, M.L. et al. (2007) Scand J Clin Lab Invest 67, 179-90. 11. Tizon, B. et al. (2010) PLoS One 5, e9819. 12. Pirttilä, T.J. et al. (2005) Neurobiol Dis 20, 241-53. 13. Kaur, G. et al. (2010) Am J Pathol 177, 2256-67.				

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 nonfat

dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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