-24840 Store at -20G

Cystatin C (D6U3E) Rabbit mAb



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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 13	Source/Isotype: Rabbit IgG	UniProt ID: #P01034	Entrez-Gene Id 1471	
Product Usage Information	Application			Dilution			
	Western Blotting			1:1000			
	Imr	nunoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sens	sitivity Cys	Cystatin C (D6U3E) Rabbit mAb recognizes endogenous levels of total cystatin C protein.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human cystatin C protein.					
Background	The sequ secr repo popu sugg oligo inhil	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 Ref	2. Tu 3. Tu 4. Fi 5. W 6. Pe	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.					

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.

10. Selenica, M.L. et al. (2007) Scand J Clin Lab Invest 67, 179-90.

Applications Key

WB: Western Blotting IP: Immunoprecipitation

8. Ishimaru, H. et al. (1996) Brain Res 709, 155-62. 9. Sastre, M. et al. (2004) Neurobiol Aging 25, 1033-43.

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.

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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