

Cathepsin B (D1C7Y) XP[®] Rabbit mAb (PE Conjugate)



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

Applications: FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P07858	Entrez-Gene Id: 1508
Product Usage Information		Application Flow Cytometry (Fixed/F	Permeabilized)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		Cathepsin B (D1C7Y) XP [®] Rabbit mAb (PE Conjugate) recognizes endogenous levels of total cathepsin B protein. This antibody detects the heavy chain subunit of cathepsin B.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the heavy chain subunit of human cathepsin B protein.			
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Cathepsin B (D1C7Y) XP [®] Rabbit mAb #31718.			
Background		endopeptidase (1,2). Cat runs at approximately 4 mature two-chain protei High levels of cathepsin cells, including lung, col been associated with mi localized to lysosomes, i thought to involve prom Expression can correlate This product detects a S	thepsin B is produced from 4 kDa on SDS-PAGE, and in containing a heavy chat B are found in macrophaton, prostate, breast, and sultiple sclerosis (3), rheun in cancer alterations can be soit on of basement member with poor prognosis for	m a larger precursor s proteolytically proc in (running at 27 and ges and osteoclasts, stomach. In addition atoid arthritis (4), aread to its secretion (6 orane degradation, in a variety of forms of for research into the	expressed lysosomal cysteine form, pro-cathepsin B, which essed and glycosylated to form a l 24 kDa) and a light chain (5 kDa). as well as various types of cancer, expression of cathepsin B has and pancreatitis (5). While generally 5). Its role in tumor progression is avasion and metastasis (7,8). cancer (9-13).
Background References		1. Chan, S.J. et al. (1986) <i>Proc Natl Acad Sci USA</i> 83, 7721-5. 2. Fong, D. et al. (1986) <i>Proc Natl Acad Sci USA</i> 83, 2909-13. 3. Bever, C.T. et al. (1994) <i>Neurology</i> 44, 745-8. 4. Hashimoto, Y. et al. (2001) <i>Biochem Biophys Res Commun</i> 283, 334-9. 5. Halangk, W. et al. (2000) <i>J Clin Invest</i> 106, 773-81. 6. Berquin, I.M. and Sloane, B.F. (1996) <i>Adv Exp Med Biol</i> 389, 281-94. 7. Yan, S. et al. (1998) <i>Biol Chem</i> 379, 113-23. 8. Vasiljeva, O. et al. (2006) <i>Cancer Res</i> 66, 5242-50. 9. Campo, E. et al. (1994) <i>Am J Pathol</i> 145, 301-9. 10. Foekens, J.A. et al. (1998) <i>J Clin Oncol</i> 16, 1013-21. 11. Werle, B. et al. (1999) <i>Br J Cancer</i> 81, 510-9. 12. Lah, T.T. et al. (2000) <i>Clin Cancer Res</i> 6, 578-84. 13. Werle, B. et al. (2000) <i>Cancer</i> 89, 2282-91.			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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