ASC/TMS1 (D2W8U) Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9EPB4	Entrez-Gene Id: 66824
Product Usage Information		Application Flow Cytometry (Fixed/P	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		ASC/TMS1 (D2W8U) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total ASC protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant mouse ASC 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 ASC/TMS1 (D2W8U) Rabbit mAb #67824.			
Background		TMS1 (target of methylation-induced silencing)/ASC (apoptosis-associated speck-like protein containing a CARD), also referred to as PYCARD and CARD5, is a 22 kDa pro-apoptotic protein containing an N-terminal pyrin domain (PYD) and a C-terminal caspase recruitment domain (CARD) (1-2). The <i>ASC/TMS1</i> gene was originally found to be aberrantly methylated and silenced in breast cancer cells (2), and has since been found to be silenced in a number of other cancers, including ovarian cancer (3), glioblastoma (4), melanoma (5), gastric cancer (6), lung cancer (7), and prostate cancer (8). Expression of ASC/TMS1 can be induced by pro-apoptotic/inflammatory stimuli (9). During apoptosis ASC/TMS1 is re-distributed from the cytosol to the mitochondria and associates with mitochondrial Bax to trigger cytochrome c release and subsequent apoptosis (10). ASC/TMS1 has also been found to be a critical component of inflammatory signaling where it associates with and activates caspase-1 in response to pro-inflammatory signals (11).			
Background References		1. Masumoto, J. et al. (1999) <i>J Biol Chem</i> 274, 33835-8. 2. Conway, K.E. et al. (2000) <i>Cancer Res</i> 60, 6236-42. 3. Terasawa, K. et al. (2004) <i>Clin Cancer Res</i> 10, 2000-6. 4. Stone, A.R. et al. (2004) <i>Am J Pathol</i> 165, 1151-61. 5. Guan, X. et al. (2003) <i>Int J Cancer</i> 107, 202-8. 6. Moriai, R. et al. (2002) <i>Anticancer Res</i> 22, 4163-8. 7. Virmani, A. et al. (2003) <i>Int J Cancer</i> 106, 198-204. 8. Das, P.M. et al. (2006) <i>Mol Cancer</i> 5, 28. 9. Strong, R. et al. (1991) <i>Brain Res</i> 542, 23-8. 10. Ohtsuka, T. et al. (2004) <i>Nat Cell Biol</i> 6, 121-8. 11. Srinivasula, S.M. et al. (2002) <i>J Biol Chem</i> 277, 21119-22.			

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 M: Mouse

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