3833

ASC/TMS1 (E1E3I) Rabbit mAb



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Applications: W, IP, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 22, 19, 15	Source/Isotype: Rabbit IgG	UniProt ID: #Q9ULZ3	Entrez-Gene Id: 29108	
Product Usage Information	2	Application Western Blotting Immunoprecipitation Immunohistochemist			Dilution 1:1000 1:50 1:6000 - 1:2400	0	
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. <i>Do not aliquot the antibody.</i>					
Specificity/Ser	nsitivity	ASC/TMS1 (E1E3I) Rabbit mAb recognizes endogenous levels of total ASC/TMS1 protein. This antibody can detect three known isoforms of ASC/TMS1.					
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human ASC/TMS1 protein, isoform 1.					
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 R	eferences	1. Masumoto, J. et al. (2. Conway, K.E. et al. (3. Terasawa, K. et al. (4. Stone, A.R. et al. (200 5. Guan, X. et al. (200 6. Moriai, R. et al. (200 7. Virmani, A. et al. (200 9. Strong, R. et al. (199 10. Ohtsuka, T. et al. (2 11. Srinivasula, S.M. et	2000) <i>Cancer Res</i> 6 2004) <i>Clin Cancer R</i> 304) <i>Am J Pathol</i> 16 3) <i>Int J Cancer</i> 107, 2 32) <i>Anticancer Res</i> 2 303) <i>Int J Cancer 10</i> 6) <i>Mol Cancer</i> 5, 28 31) <i>Brain Res</i> 542, 2 2004) <i>Nat Cell Biol</i> 6	0, 6236-42. es 10, 2000-6. 5, 1151-61. 202-8. 22, 4163-8. 6, 198-204. 3-8. 5, 121-8.			
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot B	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.				1 5% w/v BSA, 1X	
Applications K	ey	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)					
Cross-Reactivi	ty Key	H: Human					
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