PYCARD Polyclonal Antibody

E91170

Catalog Number: E91170
Amount: 100ul
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 TMS1 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 TMS1 can be induced by pro-apoptotic/inflammatory stimuli (9). During apoptosis TMS1 is re-distributed from the cytosol to the mitochondria and associates with mitochondrial Bax to trigger cytochrome c release and subsequent apoptosis (10). 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).
Species: Rabbit
Isotype: IgG
Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Synonyms: PYCARD;ASC;CARD5;MGC10332;TMS;TMS-1;TMS1 ;
Immunogen: Recombinant proteinof human PYCARD
Purification: Affinity purification
Reactivity: H M R
Applications: WB IHC
Molecular Weight: 25kDa
Swiss-Prot No. : Q9ULZ3
Gene ID: 29108
References:
1. Masumoto, J. et al. (1999) J BiolChem 274, 33835-8. 2. Conway, K.E. et al. (2000) Cancer Res 60, 6236-42. 3. Terasawa, K. et al. (2004) Clin Cancer Res 10, 2000-6. 4. Stone, A.R. et al. (2004) Am J Pathol 165, 1151-61. 5. Guan, X. et al. (2003) Int J Cancer 107, 202-8. 6. Moriai, R. et al. Anticancer Res 22, 4163-8. 7. Virmani, A. et al. (2003) Int J Cancer 106, 198-204. 8. Das, P.M. et al. (2006) Mol Cancer 5, 28. 9. Strong, R. et al. (1991) Brain Res 542, 23-8. 10. Ohtsuka, T. et al. (2004) Nat Cell Biol 6, 121-8. 11. Srinivasula, S.M. et al. (2002) J BiolChem 277, 21119-22.

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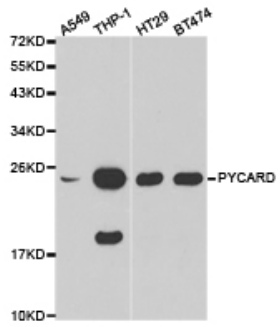
WB 1:500 - 1:2000

IHC 1:50- 1:200



Western blot analysis of extracts of various cell lines, using PYCARD antibody.

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