

Product Datasheet

TMS1 Antibody

Catalog No: CY5689

Reactivity: Human

Isotype: Rabbit IgG

Applications: WB ICC/IF FC



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Information

UniProt ID: Q9ULZ3

All Names: PYCARD;ASC;CARD5;MGC10332;TMS;TMS-1;TMS1;

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 22 kDa

Application

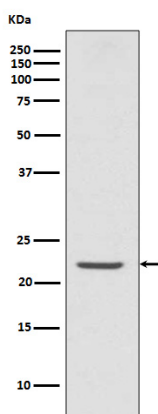
WB: 1:500~1:2000

ICC/IF: 1:50~1:200

FC: 1:50

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).



Western blot analysis of TMS1 expression in U937 cell lysate.

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