

## Anti-RASSF1A Polyclonal Antibody 2

## Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Pig,Cow,Horse,Sheep)
Molecular Weight:	Theoretical: 39 kDa. Actual: 42 kDa.
Purification:	Protein A purified

## Applications

Verified Activity:	1. Positive control: A549 cells (fixed with 70% ice-cold methanol overnight at 4°C, permeabilized with 0.1% P Unconjugated (TMAB-12116) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei. 2. Paraformaldehyde-fixed, paraffin embedded (mouse placenta tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (RASSF1A) Polyclonal Antibody, Unconjugated (TMAB-12116) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.
Application:	WB,IHC-P,IHC-Fr,ICC/IF,IF,FCM
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human RASSF1A
Antigen Species:	Human
Gene ID:	11186
Uniprot ID:	Q9NS23

## Research Background

The tumor suppressor gene RASSF1A (3p21.3), human Ras association domain family 1A, is expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis, small intestine, colon, and peripheral blood leukocytes. RASSF1A expression is inhibited by hypermethylation of the CpG island including the promoter and early transcribed regions of the human RASSF1A gene. Hypermethylated RASSF1A promoter is observed in primary tumors. Furthermore, RASSF1A is related with cell cycle regulation, apoptosis and microtubule stability. Potential tumor suppressor. Isoform A interacts with CDC20, an activator of the anaphase-promoting complex, APC, resulting in the inhibition of APC activity and mitotic progression. More specifically, RASSF1a inhibits proliferation by negatively regulating cell cycle progression at the level of G1/S-phase transition by regulating accumulation of cyclin D1 protein. It also inhibits the activation of STK3 and STK4 and may play an additional role as a scaffold protein, directing these enzymes to sites of activation. Isoform C has been shown not to perform these

roles, and no function has been identified for this isoform.

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