

Rabbit anti-Human RASSF2 Polyclonal Antibody | anti-RASSF2 antibody

Anti-RASSF2 Antibody Picoband

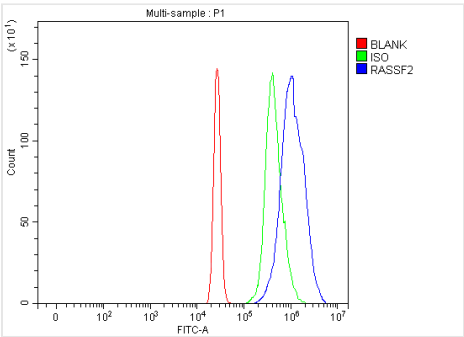
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127229	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

RASSF2; Polyclonal Antibody; Anti-RASSF2 Antibody Picoband; acyl-CoA synthetase long chain family member 4; Long-chain-fatty-acid--CoA ligase 4; Long-chain acyl-CoA synthetase 4; LACS 4; ACSL4; ACS4; FACL4; LACS4; anti-RASSF2 antibody

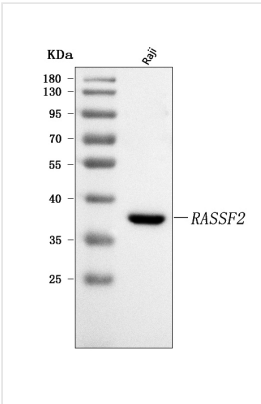
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in the prostate gland and prostate cancers.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-RASSF2 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human RASSF2 recombinant protein (Position: M1-I326).
Subcellular Localization	Secreted
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Catalyzes the conversion of long-chain fatty acids to their active form acyl-CoA for both synthesis of cellular lipids, and degradation via beta-oxidation (PubMed:24269233, PubMed:22633490, PubMed:21242590). Preferentially activates arachidonate and eicosapentaenoate as substrates (PubMed:21242590). Preferentially activates 8,9-EET > 14,15-EET > 5,6-EET > 11,12-EET. Modulates glucose-stimulated insulin secretion by regulating the levels of unesterified EETs (By similarity). Modulates prostaglandin E2 secretion (PubMed:21242590).
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



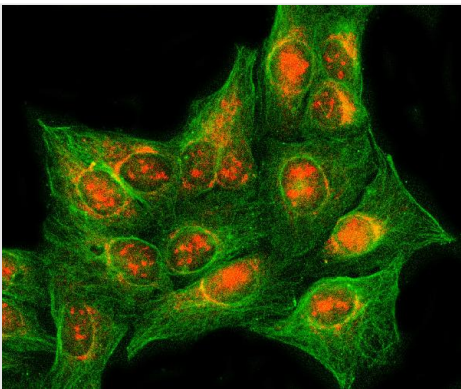
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HL-60 cells using anti-RASSF2 antibody (AAA127229).Overlay histogram showing HL-60 cells stained with AAA127229 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RASSF2 Antibody (AAA127229, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of RASSF2 using anti-RASSF2 antibody (AAA127229).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Raji whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RASSF2 antigen affinity purified polyclonal antibody (#AAA127229) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for RASSF2 at approximately 38 kDa. The expected band size for RASSF2 is at 38 kDa.



IF (Immunofluorescence)

Figure 2. IF analysis of RASSF2 using anti-RASSF2 antibody (AAA127229) and anti-Tubulin Alpha antibody (M03989-3).RASSF2 was detected in immunocytochemical section of U2OS cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-RASSF2 Antibody (AAA127229) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-RASSF2 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-RASSF2 antibody	Primary Antibodies; Adaptive Immunity; B Cells; Hematopoietic Progenitors; Immunoglobulins; Immunology; Lymphoid; Receptors; Stem Cells

References	1. Comincini, S., Castiglioni, B. M., Foti, G. M., Del Vecchio, I., Ferretti, L. Isolation and molecular characterization of rasfadin, a novel gene in the vicinity of the bovine prion gene. Mammalian Genome 12: 150-156, 2001.2. Donninger, H., Hesson, L., Vos, M., Beebe, K., Gordon, L., Sidransky, D., Liu, J. W., Schlegel, T., Payne, S., Hartmann, A., Latif, F., Clark, G. J. The Ras effector RASSF2 controls the PAR-4 tumor suppressor. Molec. Cell. Biol. 30: 2608-2620, 2010. 3. Nagase, T., Seki, N., Ishikawa, K., Tanaka, A., Nomura, N. Prediction of the coding sequences of unidentified human genes. V. The coding sequences of 40 new genes (KIAA0161-KIAA0200) deduced by analysis of cDNA clones from human cell line KG-1. DNA Res. 3: 17-24, 1996.
------------	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	7661964
NCBI GeneID	9770
NCBI Accession #	NP_055552.1
NCBI GenBank Nucleotide #	NM_014737.2
UniProt Accession #	P50749; Q17S06; Q53HD0; Q6AHZ2; Q8IZA5; A6NIX9; A8K5Z3
Molecular Weight	17,879 Da
NCBI Official Full Name	ras association domain-containing protein 2
NCBI Official Synonym Full Names	Ras association (RalGDS/AF-6) domain family member 2
NCBI Official Symbol	RASSF2
NCBI Official Synonym Symbols	CENP-34; RASFADIN
NCBI Protein Information	ras association domain-containing protein 2; centromere protein 34; Ras association (RalGDS/AF-6) domain family 2
UniProt Protein Name	Ras association domain-containing protein 2
UniProt Gene Name	RASSF2
UniProt Synonym Gene Names	KIAA0168
UniProt Entry Name	RASF2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.