

Rabbit RASSF1 Polyclonal Antibody | anti-RASSF1 antibody

RASSF1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326111	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RASSF1; Polyclonal Antibody; RASSF1 Antibody; 123F2; Cardiac specific ras association domain family 1 protein; cardiac-specific ras association domain family 1 protein; NORE2A; OTTHUMP00000195503; OTTHUMP00000195504; OTTHUMP00000195505; OTTHUMP00000195507; Pancreas specific ras association domain family 1 protein; Ras association (RalGDS/AF 6) domain family member 1; Ras association domain-containing protein 1; RASF1_HUMAN; Rassf1; RASSF1A; RDA32; REH3P21; Tumor suppressor protein RDA32; WUGSC:H_LUCA12.5; anti-RASSF1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RASSF1 antibody detects endogenous levels of total RASSF1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	189
Applicable Applications for anti-RASSF1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RASSF1
Subcellular Location	Nucleus. Predominantly Nuclear and Cytoplasm > Cytoskeleton. Cytoplasm > Cytoskeleton > Centrosome. Cytoplasm > Cytoskeleton > Spindle. Cytoplasm > Cytoskeleton > Spindle Pole. Nucleus. Localizes to cytoplasmic microtubules during interphase, to bipolar centrosomes associated with microtubules during prophase, to spindle fibers and spindle poles at metaphase and anaphase, to the midzone during early telophase, and to the midbody in late telophase in cells. Colocalizes with MDM2 in the nucleus.
Tissue Specificity	Isoform A and isoform C are ubiquitously expressed in all tissues tested, however isoform A is absent in many corresponding cancer cell lines. Isoform B is mainly expressed in hematopoietic cells.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of 293T lysate using RASSF1 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA326111 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from Hela, using RASSF1 Antibody. Lane 1 was treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-RASSF1 antibody

Description: This gene encodes a protein similar to the RAS effector proteins. Loss or altered expression of this gene has been associated with the pathogenesis of a variety of cancers, which suggests the tumor suppressor function of this gene. The inactivation of this gene was found to be correlated with the hypermethylation of its CpG-island promoter region. The encoded protein was found to interact with DNA repair protein XPA. The protein was also shown to inhibit the accumulation of cyclin D1, and thus induce cell cycle arrest. Several alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq, May 2011]
Function: Potential tumor suppressor. Required for death receptor-dependent apoptosis. Mediates activation of STK3/MST2 and STK4/MST1 during Fas-induced apoptosis by preventing their dephosphorylation. When associated with MOAP1, promotes BAX conformational change and translocation to mitochondrial membranes in response to TNF and TNFSF10 stimulation. Isoform A interacts with CDC20, an activator of the anaphase-promoting complex, APC, resulting in the inhibition of APC activity and mitotic progression. Inhibits proliferation by negatively regulating cell cycle progression at the level of G1/S-phase transition by regulating accumulation of cyclin D1 protein. Isoform C has been shown not to perform these roles, no function has been identified for this isoform. Isoform A disrupts interactions among MDM2, DAXX and USP7, thus contributing to the efficient activation of TP53 by promoting MDM2 self-ubiquitination in cell-cycle checkpoint control in response to DNA damage.
Subunit Structure: Interacts with MAP1S and XPA. Binds to the N-terminal of CDC20 during prometaphase. Binds to STK3/MST2 and STK4/MST1. Isoform A interacts with MOAP1 and E4F1. Recruited to the TNFRSF1A and TNFRSF10A complexes in response to their respective cognate ligand, after internalization. Can self-associate. Isoform A interacts with RASSF5 and probably associates with HRAS via a RASSF1 isoform A-RASSF5 heterodimer. Part of a complex with MDM2, DAXX, RASSF1 and USP7. Isoform A interacts (via C-terminus) with DAXX (via N-terminus); the interaction is independent of MDM2 and TP53. Isoform C or isoform H interacts (via N-terminus) with DAXX. Isoform A interacts (via N-terminus) with MDM2 (via C-terminus); the interaction is independent of TP53.

NCBI AND UNIPROT INFORMATION

NCBI GI #	332701155
NCBI GeneID	11186
NCBI Accession #	NP_001193886.1
NCBI GenBank Nucleotide #	NM_001206957.1
UniProt Accession #	Q9NS23; O14571; O60539; O60710; Q0VGC6; Q5TZX2; Q9HB04; Q9HB18; Q9NS22; Q9UND4; Q9UND5; B7ZLL1
Molecular Weight	Observed: 39 kDa Predicted: 40 kDa
NCBI Official Full Name	ras association domain-containing protein 1 isoform B

NCBI Official Synonym Full Names	Ras association domain family member 1
NCBI Official Symbol	RASSF1
NCBI Official Synonym Symbols	123F2; RDA32; NORE2A; RASSF1A; REH3P21
NCBI Protein Information	ras association domain-containing protein 1
UniProt Protein Name	Ras association domain-containing protein 1
UniProt Gene Name	RASSF1

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rassf1-antibody-immunohistochemistry-western-blot-elisa/326111>