



RSAD2 Polyclonal Antibody

Catalog No	BYab-02879
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	RSAD2
Protein Name	Radical S-adenosyl methionine domain-containing protein 2
Immunogen	The antiserum was produced against synthesized peptide derived from the N-terminal region of human RSAD2. AA range:21-70
Specificity	RSAD2 Polyclonal Antibody detects endogenous levels of RSAD2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	RSAD2; CIG5; Radical S-adenosyl methionine domain-containing protein 2; Cytomegalovirus-induced gene 5 protein; Viperin; Virus inhibitory protein, endoplasmic reticulum-associated, interferon-inducible
Observed Band	42kD
Cell Pathway	Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side. Golgi apparatus . Endoplasmic reticulum . Lipid droplet . Mitochondrion. Mitochondrion inner membrane. Mitochondrion outer membrane. Infection with human cytomegalovirus (HCMV) causes relocation to the Golgi apparatus and to cytoplasmic vacuoles which also contain HCMV proteins glycoprotein B and pp28. Interaction with human cytomegalovirus/HHV-5 protein vMIA/UL37 results in its relocalization from the endoplasmic reticulum to the mitochondria.
Tissue Specificity	Foreskin fibroblast,Macrophage,Prostate,
Function	cofactor:Binds 1 4Fe-4S cluster. The cluster is coordinated with 3 cysteines and an exchangeable S-adenosyl-L-methionine.,function:Involved in antiviral defense. May impair virus budding by disrupting lipid rafts at the plasma membrane, a feature which is essential for the budding process of many viruses. Acts through

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binding with and inactivating FPPS, an enzyme involved in synthesis of cholesterol, farnesylated and geranylated proteins, ubiquinones dolichol and heme. Plays a major role in the cell antiviral state induced by type I and type II interferon. Displays antiviral effect against HIV-1 virus, hepatitis C virus, human cytomegalovirus, and aphaviruses, but not vesiculovirus.,induction:By interferon type I, type II and LPS. Little or no induction by interferon gamma is observed in monocytic cell lines. Induced by infection with human cytomegalovirus (HCMV), hepatitis C virus, yell

Background

cofactor: Binds 1 4Fe-4S cluster. The cluster is coordinated with 3 cysteines and an exchangeable S-adenosyl-L-methionine.,function:Involved in antiviral defense. May impair virus budding by disrupting lipid rafts at the plasma membrane, a feature which is essential for the budding process of many viruses. Acts through binding with and inactivating FPPS, an enzyme involved in synthesis of cholesterol, farnesylated and geranylated proteins, ubiquinones dolichol and heme. Plays a major role in the cell antiviral state induced by type I and type II interferon. Displays antiviral effect against HIV-1 virus, hepatitis C virus, human cytomegalovirus, and aphaviruses, but not vesiculovirus.,induction:By interferon type I, type II and LPS. Little or no induction by interferon gamma is observed in monocytic cell lines. Induced by infection with human cytomegalovirus (HCMV), hepatitis C virus, yellow fever virus and Sendai virus, presumably through type I interferon pathway.,miscellaneous:Up-regulated in atherosclerosis. Latent viruses like HCMV may be involved in atherogenesis by initiating local inflammation. This may induce up-regulation of antiviral gene RSAD2, which modulates lipids synthesis, and thus could play a role in abnormal lipid accumulation leading to atherosclerosis.,similarity:Belongs to the RSAD2 family.,subcellular location:Probably associates with the cytosolic side of the endoplasmic reticulum. Infection with human cytomegalovirus (HCMV) causes relocation to the Golgi apparatus and to cytoplasmic vacuoles which also contain HCMV proteins glycoprotein B and pp28.,subunit:Interacts with FPPS.,

matters needing attention

Avoid repeated freezing and thawing!

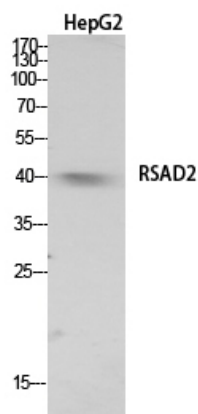
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

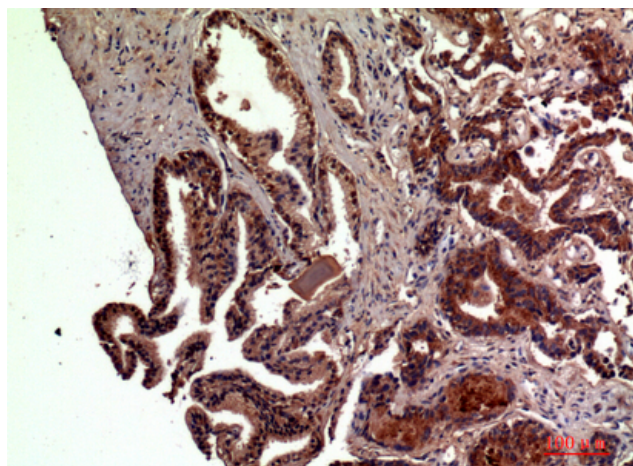
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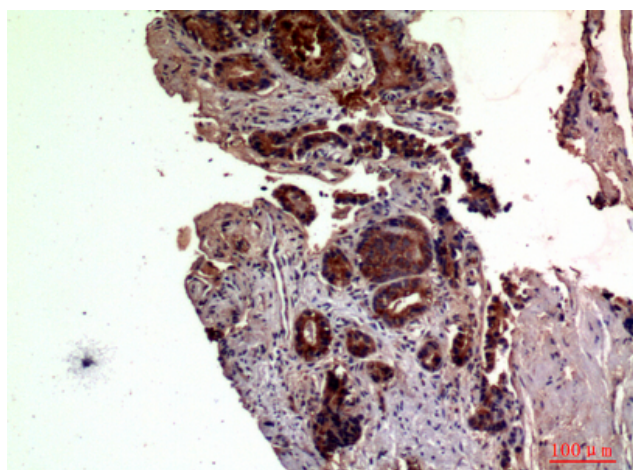
Products Images



Western Blot analysis of HepG2 cells using RSAD2 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-prostate-cancer, antibody was diluted at 1:100



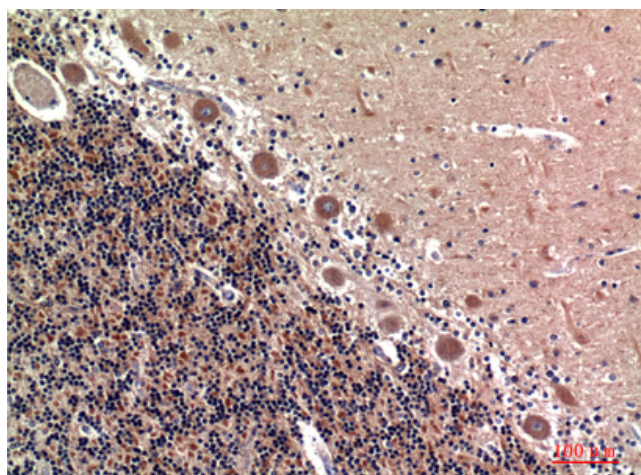
Immunohistochemical analysis of paraffin-embedded human-prostate-cancer, antibody was diluted at 1:100

Nanjing BYabs science technology Co.,Ltd

网址: www.njbybio.com

官方热线: 025-5229-8998

监督电话: 15950492658



Immunohistochemical analysis of paraffin-embedded human-brain, antibody was diluted at 1:100