

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

RAD Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324770	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RAD; Polyclonal Antibody; RAD Antibody; GTP binding protein RAD; GTP-binding protein RAD; RAD_HUMAN; RAD1; RAS (RAD and GEM) like GTP binding 3; Ras associated with diabetes; Ras related associated with diabetes; REM3; RRAD; anti-RAD antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	RAD antibody detects endogenous levels of total RAD
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	308
Applicable Applications for anti-RAD antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RAD, corresponding to a region within the internal amino acids.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



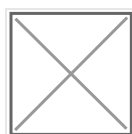
WB (Western Blot)

Western blot analysis of extracts from HeLa cells using RAD antibody.



IHC (Immunohistochemistry)

AAA324770 at 1/100 staining Human lung 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.



IF (Immunofluorescence)

AAA324770 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-RAD antibody	Function: May play an important role in cardiac antiarrhythmia via the strong suppression of voltage-gated L-type Ca2+ currents. Regulates voltage-dependent L-type calcium channel subunit alpha-1C trafficking to the cell membrane (By similarity). Inhibits cardiac hypertrophy through the calmodulin-dependent kinase II (CaMKII) pathway. Inhibits phosphorylation and activation of CAMK2D. Subunit Structure: Interacts with calmodulin preferentially in the inactive, GDP-bound form. Binds CAMKII which is capable of phosphorylating RAD in vitro. Interacts with CAMK2D and CACNB2. Interaction with CACNB2 regulates the trafficking of CACNA1C to the cell membrane (By similarity). Similarity: Belongs to the small GTPase superfamily. RGK family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	192807327
NCBI GeneID	6236
NCBI Accession #	NP_001122322.1
NCBI GenBank Nucleotide #	NM_001128850.1
UniProt Accession #	P55042; Q96F39
Molecular Weight	33 KD
NCBI Official Full Name	GTP-binding protein RAD
NCBI Official Synonym Full Names	RRAD, Ras related glycolysis inhibitor and calcium channel regulator
NCBI Official Symbol	RRAD
NCBI Official Synonym Symbols	RAD; RAD1; REM3
NCBI Protein Information	GTP-binding protein RAD
UniProt Protein Name	GTP-binding protein RAD
UniProt Gene Name	RRAD
UniProt Synonym Gene Names	RAD

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.