

Rad GTPase Polyclonal Antibody
Catalog # AP72139**Specification**

Rad GTPase Polyclonal Antibody - Product Information

Application	WB, IHC-P, IF
Primary Accession	P55042
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal

Rad GTPase Polyclonal Antibody - Additional Information**Gene ID** 6236**Other Names**

RRAD; RAD; GTP-binding protein RAD; RAD1; Ras associated with diabetes

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.

IHC-P~~N/A

IF~~1:50~200

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Rad GTPase Polyclonal Antibody - Protein Information**Name** RRAD**Synonyms** RAD**Function**

May regulate basal voltage-dependent L-type Ca(2+) currents and be required for beta-adrenergic augmentation of Ca(2+) influx in cardiomyocytes, thereby regulating increases in heart rate and contractile force (By similarity). May play an important role in cardiac antiarrhythmia via the strong suppression of voltage-gated L- type Ca(2+) currents (By similarity). 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 (PubMed:18056528). Inhibits phosphorylation and activation of CAMK2D (PubMed:18056528).

Cellular Location

Cell membrane.

Tissue Location

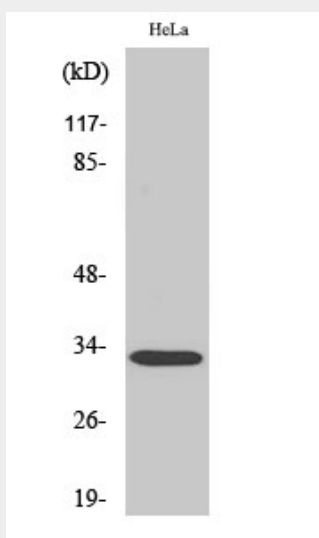
Most abundantly expressed in the heart. Also found in the skeletal muscle and lung. Lesser amounts in placenta and kidney Also detected in adipose tissue. Overexpressed in muscle of type II diabetic humans.

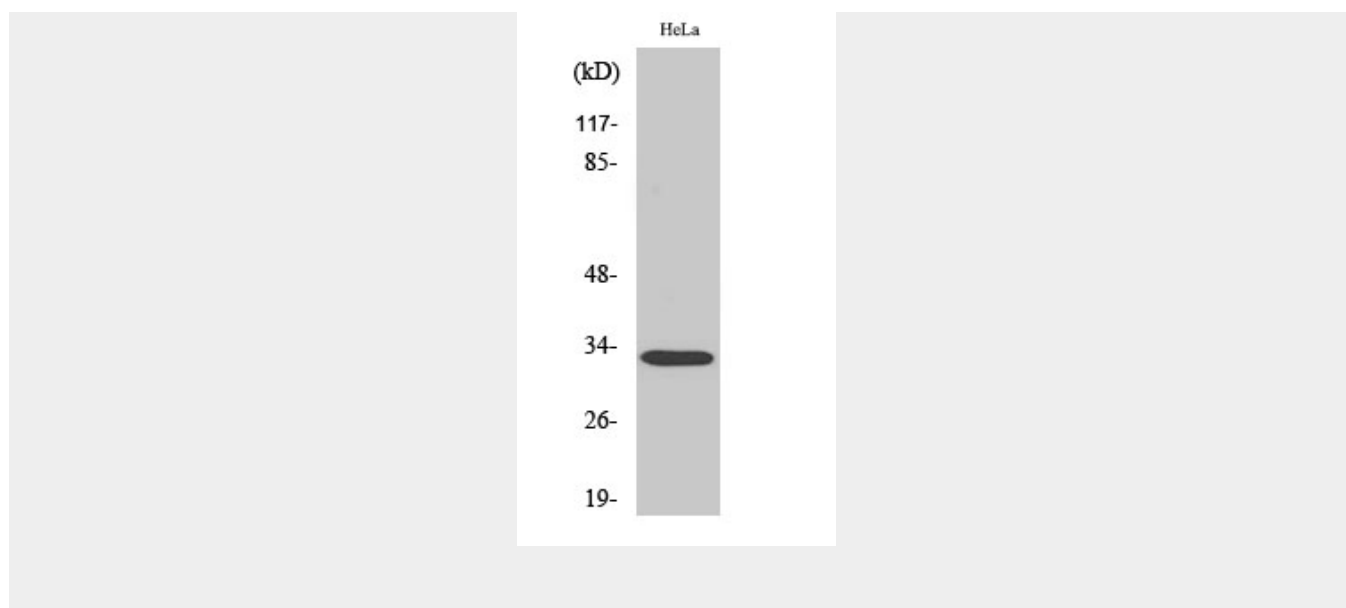
Rad GTPase Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Rad GTPase Polyclonal Antibody - Images





Rad GTPase Polyclonal Antibody - Background

May play an important role in cardiac antiarrhythmia via the strong suppression of voltage-gated L-type Ca^{2+} currents. Regulates voltage-dependent L-type calcium channel subunit $\alpha_1\text{C}$ trafficking to the cell membrane (By similarity). Inhibits cardiac hypertrophy through the calmodulin-dependent kinase II (CaMKII) pathway. Inhibits phosphorylation and activation of CAMK2D.