

RRAD Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51493**Specification**

RRAD Antibody - Product Information

Application	WB
Primary Accession	P55042
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33 KDa
Antigen Region	31 - 90

RRAD Antibody - Additional Information**Gene ID** 6236**Other Names**

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

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RRAD. The exact sequence is proprietary.

Dilution

WB~~ 1:1000

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

RRAD 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:<a href="http://www.uniprot.org/citations/18056528"

target="_blank">18056528). Inhibits phosphorylation and activation of CAMK2D (PubMed:18056528).

Cellular Location

Cell membrane.

Tissue Location

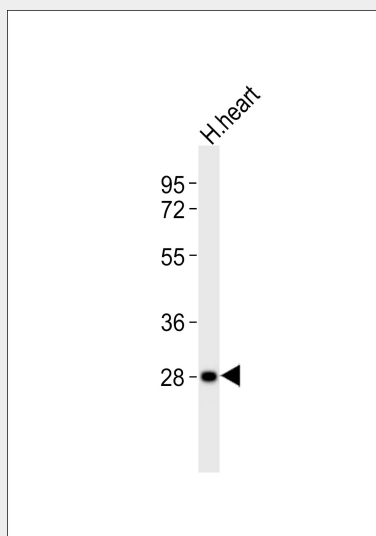
Most abundantly expressed in the heart. Also found in the skeletal muscle and lung. Lesser amounts in placenta and kidney Also detected in adipose tissue. Overexpressed in muscle of type II diabetic humans.

RRAD 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](#)

RRAD Antibody - Images



Anti-RRAD Antibody at 1:1000 dilution + human heart lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 33 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

RRAD Antibody - Background

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.

RRAD Antibody - References

Reynet C.,et al.Science 262:1441-1444(1993).
Moyers J.S.,et al.J. Biol. Chem. 272:11832-11839(1997).
Chang L.,et al.Circulation 116:2976-2983(2007).