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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 derived from human RRAD

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:18056528). Inhibits phosphorylation and activation of CAMK2D (PubMed:<a

href="http://www.uniprot.org/citations/18056528" target="_blank">18056528).

Cellular Location
Cell membrane.

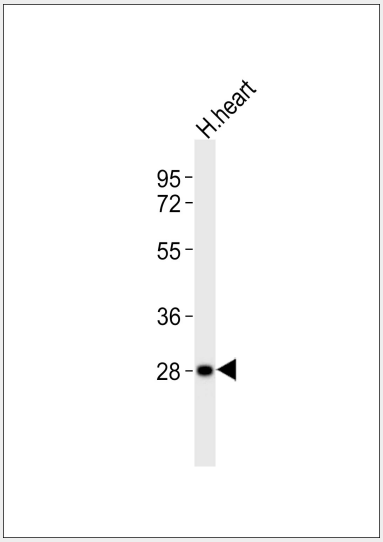
Tissue Location
Most abundantly expressed in the heart. Also found in the skeletal muscle and lung. Lesser amounts in placenta and kidney Also detected in adipose tissue. Overexpressed in muscle of type II diabetic humans.

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 Cytomety
- 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% NFDM/TBST.

RRAD 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- 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.

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RRAD Antibody - References

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Moyers J.S.,et al.J. Biol. Chem. 272:11832-11839(1997).
Chang L.,et al.Circulation 116:2976-2983(2007).