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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB11418 - Goat Anti-RRAD (aa36-48) Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: GTP-binding protein RAD, OTTHUMP00000174805, RAD, RAD1, RAS (RAD and GEM) like GTP binding 3, ras associated with diabetes, Ras-related associated with diabetes, REM3, RRAD

Official Symbol: RRAD

Accession Number(s): NP_004156.1

Human GeneID(s): [6236](#)

Non-Human GeneID(s): 56437 (mouse), 83521 (rat)

Important Comments: Reported variants represent identical protein: NP_004156.1, NP_001122322.1

Immunogen

Peptide with sequence C-HRRSMPVDERDLQ, from the internal region of the protein sequence according to NP_004156.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:64000.

Western blot: Approx 37kDa band observed in Mouse Heart lysates and no 37kDa in the KO lysates (calculated MW of 33.2kDa according to mouse NP_062636.2 and human NP_004156.1). There is some non-specific background, we call for caution when used for other assays than Western blot. In transfected HEK293 transiently expressing Mouse Rrad (HA tagged), a band of approx. 45kDa is observed. No bands are observed in transfected HEK293 transiently expressing related Mouse GTPases. Recommended concentration: 0.5-2µg/ml.

Species Reactivity

Tested: Mouse

Expected from sequence similarity: Human, Mouse, Rat, Dog, Pig, Cow

Specific Reference

This antibody has been successfully used in Western blot on Mouse:

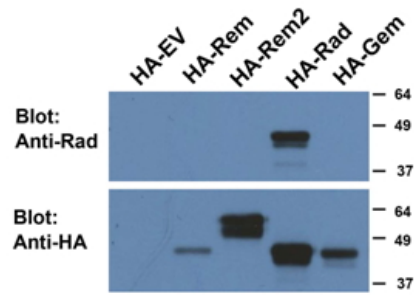
Catherine N. Withers, Drew M. Brown, Innocent Byiringiro, Matthew R. Allen, Keith W. Condon, Jonathan Satin, Douglas A. Andres

Rad GTPase is essential for the regulation of bone density and bone marrow adipose tissue in mice

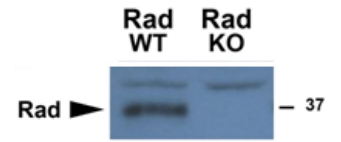
Bone. 2017 Oct; 103: 270-280.

PMID: 28732776

A)



B)



A): EB11418 (0.5 μ g/ml) staining of HEK293 lysates overexpressing several HA-tagged Mouse GTPases, including Rrad (10 μ g protein in RIPA buffer) and compared with an HA-specific antibody. B): EB11418 (0.5 μ g/ml) staining of WT and KO lysates of Mouse Heart (100 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence. Data provided by Prof. D Andres, University of Kentucky College of Medicine, USA.