

Anti-HCAR2 Antibody

Catalog Number: A02511

About HCAR2

Weakly binds calcium but binds zinc very tightly-distinct binding sites with different affinities exist for both ions on each monomer. Physiological concentrations of potassium ion antagonize the binding of both divalent cations, especially affecting high-affinity calcium-binding sites. May mediate calcium-dependent regulation on many physiological processes by interacting with other proteins, such as TPR-containing proteins, and modulating their activity.

Patrick Most, J. Biol. Chem., Nov 2003; 278: 48404 - 48412.

Miki Okada, J. Biol. Chem., Feb 2004; 279: 4221 - 4233.

Melanie Boerries, Mol. Cell. Biol., Jun 2007; 27: 4365 - 4373.

Patrick Most, J. Clin. Invest., Dec 2004; 114: 1550 - 1563.

Overview

Product Name	Anti-HCAR2 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-HCAR2 Antibody catalog # A02511. Tested in WB,IHC,ICC/IF applications. This antibody reacts with Human,Mouse,Rat.
Application	IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q8TDS4

Technical Details

Immunogen	recombinant Protein
Predicted Reactive Species	Boar, Bovine, Canine, Golden Hamster
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml

Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1:500-1:2000 IHC: 1:50-1:200 ICC/IF: 1:50-1:200

Anti-HCAR2 Antibody (A02511) Images

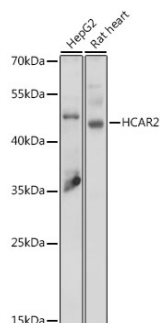


Figure 1. Western blotting validation for Anti-HCAR2 Antibody A02511

Western blot analysis of extracts of various cell lines

1 Publications Citing This Product

1. PubMed ID: 10.1371/journal.pone.0211005, The activation of retinal HCA2 receptors by systemic beta-hydroxybutyrate inhibits diabetic retinal damage through reduction of endoplasmic reticulum stress and the NLRP3 inflammasome

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