

Rabbit CBARA1 Polyclonal Antibody | anti-CBARA1 antibody

CBARA1 Rabbit polyclonal IgG

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA268968	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Western Blot

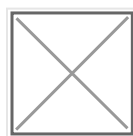
PRODUCT SYNONYMS

CBARA1; Polyclonal Antibody; CBARA1 Rabbit polyclonal IgG; ara CALC; MICU1; CALC; anti-CBARA1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Protein affinity purified.
Form/Format	1*TBS (pH7.4), 1% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-CBARA1 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	Recombinant protein within Human CBARA1 aa 14-154.
Preparation and Storage	Store at 4°C after thawing. Aliquot Store at -20°C. Avoid repeated freeze/thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of CBARA1 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody was used at a 1:500 dilution in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: Mouse kidney tissue lysate; Lane 2: Rat brain tissue lysate; Lane 3: Hela cell lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-CBARA1 antibody

Key regulator of mitochondrial calcium uniporter (MCU) that senses calcium level via its EF-hand domains. MICU1 acts both as an activator or inhibitor of mitochondrial calcium uptake. The encoded protein interacts with the mitochondrial calcium uniporter, a mitochondrial inner membrane Ca²⁺ channel, and is essential in preventing mitochondrial Ca²⁺ overload, which can cause excessive production of reactive oxygen species and cell stress. Acts as a gatekeeper of MCU at low concentration of calcium, preventing channel opening. Enhances MCU opening at high calcium concentration, allowing a rapid response of mitochondria to calcium signals generated in the cytoplasm. Regulates glucosedependent insulin secretion in pancreatic beta-cells by regulating mitochondrial calcium uptake. Induces T-helper 1-mediated autoreactivity, which is accompanied by the release of IFNG. Alternatively spliced transcript variants encoding different isoforms have been described.

NCBI AND UNIPROT INFORMATION

UniProt Accession #	Q9BPX6; Q8VCX5 (Mouse); Q6P6Q9 (Rat)
Molecular Weight	45 kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cbara1-antibody-flow-cytometry-immunofluorescence-western-blot-elisa/268968>