antibodies - online.com







anti-MICU1 antibody (AA 55-191)

Images



Overview

Quantity:	100 μg
Target:	MICU1
Binding Specificity:	AA 55-191
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MICU1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Calcium uptake protein 1, mitochondrial protein (55-191AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	MICU1
Alternative Name:	MICU1 (MICU1 Products)
Background:	Background: Key regulator of mitochondrial calcium uniporter (MCU) that senses calcium level
	via its EF-hand domains (PubMed:20693986, PubMed:23101630, PubMed:23747253,

PubMed:24313810, PubMed:24332854, PubMed:24503055, PubMed:24560927, PubMed:26341627, PubMed:26903221, PubMed:27099988). MICU1 and MICU2 form a disulfide-linked heterodimer that stimulates and inhibits MCU activity, depending on the concentration of calcium. MICU1 acts both as an activator or inhibitor of mitochondrial calcium uptake (PubMed:26903221). Acts as a gatekeeper of MCU at low concentration of calcium, preventing channel opening (PubMed:26903221). Enhances MCU opening at high calcium concentration, allowing a rapid response of mitochondria to calcium signals generated in the cytoplasm (PubMed:24560927, PubMed:26903221). Regulates glucose-dependent insulin secretion in pancreatic beta-cells by regulating mitochondrial calcium uptake (PubMed:22904319). Induces T-helper 1-mediated autoreactivity, which is accompanied by the release of IFNG (PubMed:16002733).

Aliases: Allergen Hom s 4 antibody, ara CALC antibody, atopy related autoantigen antibody, atopy related autoantigen CALC antibody, CALC antibody, calcium binding atopy related autoantigen 1 antibody, Calcium uptake protein 1 antibody, calcium uptake protein 1, mitochondrial antibody, Calcium-binding atopy-related autoantigen 1 antibody, CBARA1 antibody, EFHA3 antibody, FLJ12684 antibody, MICU1 antibody, MICU1_HUMAN antibody, mitochondrial antibody, mitochondrial calcium uptake 1 antibody, MPXPS antibody

UniProt:

Q9BPX6

Application Details

Application Notes: Recommended dilution: WB:1:500-1:5000, IHC:1:200-1:500,

Restrictions: For Research Use only

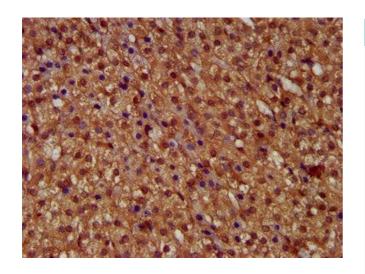
Handling

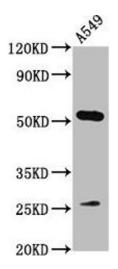
Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C

Storage Comment:

Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images





Immunohistochemistry

Image 1. IHC image of ABIN7146322 diluted at 1:400 and staining in paraffin-embedded human adrenal gland tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Western Blotting

Image 2. Western Blot Positive WB detected in: A549 whole cell lysate All lanes: MICU1 antibody at 3.2 μg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 55, 46, 33, 32 kDa Observed band size: 55 kDa