SICGEN ANTIBODIES

Product Data Sheet

Catalogue No.	Qty:
AB0047-200	600 µg
AB0047-500	1.5 mg

Anti-CD63

Source: Goat

General description: CD63 is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of the members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. These proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This protein is a cell surface glycoprotein that is known to complex with integrins. It may function as a blood platelet activation marker.

Alternative names: CD63 antigen, CD63 antigen (melanoma 1 antigen), granulophysin, LAMP-3, lysosomal-associated membrane protein 3, lysosome-associated membrane glycoprotein 3, ME491, melanoma-associated antigen, melanoma 1 antigen, melanoma-associated antigen ME491, MLA1, ocular melanoma-associated antigen, OMA81H, tetraspanin-30, TSPAN30 antibody.

Form: Polyclonal antibody supplied as a 200 or 500 µl (3 mg/ml) aliquot in PBS, 20% glycerol and 0.05% sodium azide. This antibody is epitope-affinity purified from goat antiserum.

Immunogen: Purified recombinant peptide derived from within residues 120 aa to 175 aa of human CD63 produced in E. coli.

Specificity: Reacts with CD63, a 40-60 kDa glycoprotein, detected by Western blot in the following human (HeLa, HUH, Jurkat), mouse (AtT-20, Hepa, 3T3, RAW264.7), canine (MDCK) and monkey (COS-7) whole cell lysates.

Reactivity: Reacts with Human, Rat, Mouse, Monkey and Canine proteins

Sample	WB	IHC (F)	IHC (P)	IF	ELISA
Human	+++	+++	+++	+++	ND
Rat	+++	+++	+++	+++	ND
Mouse	+++	+++	+++	+++	ND
Canine	+++	+++	+++	+++	ND
Monkey	+++	+++	+++	+++	ND

+++ excellent, ++ good, + poor, ND not determined

Usage:

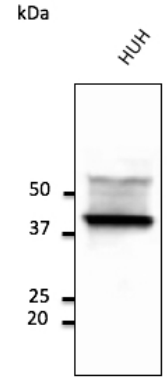
WB:	1:500-1:5,000
IF:	1:25-1:250
IHC (F):	1:250-1:1,000
IHC (P):	1:250-1:1,000

Storage: For continuous use, store at 2-8 C for one-two days. For extended storage, store in -20 C freezer. Working dilution samples should be discarded if not used within 12 hours.

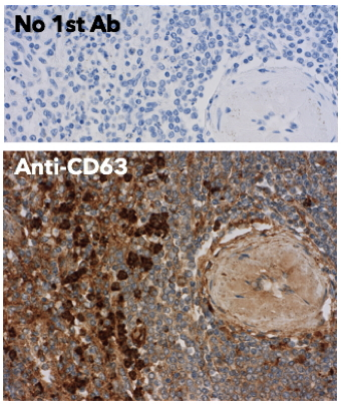
Special instructions: The antibody solution should be gently mixed before use..

References:

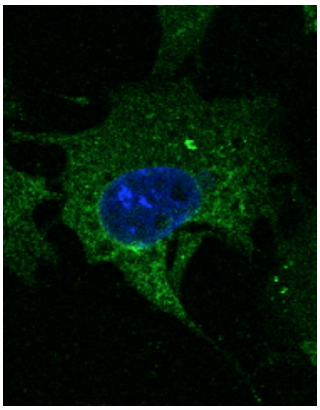
1. Amorim M, Martins B, Caramelo F, et al. Front Med (Lausanne) 2022 May PMID: 35692536
2. Matsui T, Sakamaki Y, Nakashima S, et al. Cell Rep 2022 May PMID: 35649370
3. Martins-Marques T, Costa MC, Catarino S, et al. EMBO Rep 2022 May PMID: 35593040
4. Ferreira JV, Soares AR, Ramalho J, et al. Sci Adv 2022 Mar PMID: 35333565
5. Saludas L, Garbayo E, Ruiz-Villalba A, et al. Eur J Pharm Biopharm 2021 Dec PMID: 34968647
6. Garbayo E, Ruiz-Villalba A, Hernandez SC, et al. Acta Biomater 2021 May PMID: 33716175
7. Aires ID, Ribeiro-Rodrigues T, Boia R, et al. Glia 2020 Dec PMID: 32645245
8. Martins-Marques T, Ribeiro-Rodrigues T, de Jager SC, et al. Life Sci Alliance 2020 Oct PMID: 33097557
9. Armando F, Gambini M, Corradi A, et al. Viruses 2020 Feb PMID: 32054075
10. Simpong LD, PhD Thesis Universität Leipzig, Germany 2020
11. Carvalho AS, Moraes MCS, Hyun Na C, et al. Cancers, 2020 Nov PMID: 33233545
12. Ferreira JV, Rosa Soares A, Ramalho JS, et al. PLoS One. 2019 Oct PMID: 31613922
13. Cardoso MHS, PhD Thesis, NOVA University of Lisbon, Portugal 2018
14. Martins-Marques T, Pinho MJ, Zuzarte M. et al. J Extracell Vesicles. 2016 Sep PMID: 27702427
15. Successfully validated (Western Blotting) by Center for Diabetes and Metabolic Diseases, Indiana University, US
16. Jang J, Yeo S, Baek S, et al. Acta Neuropathol Commun 2023 Sep PMID: 37667395
17. Matsui T, Sakamaki Y, Hiragi S, et al. Cell Struct Funct 2023 Sep PMID: 37704453
18. Yeo S, Jang J, Jung HJ, et al. Front Mol Biosci 2023 Oct PMID: 37942288



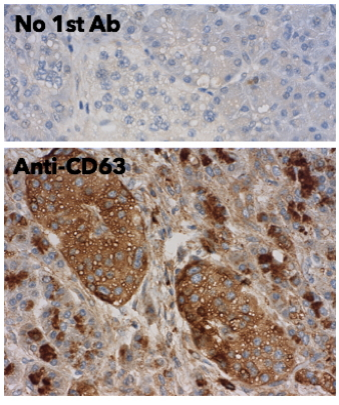
Anti-CD63 Ab at 1/2,500 dilution; lysate at 50 µg per lane; Rabbit polyclonal to goat IgG (HRP) at 1/10,000 dilution;



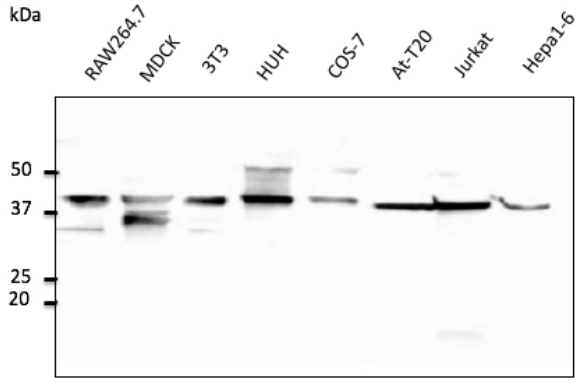
IHC of mouse spleen using anti-CD63 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CD63 Ab at 1:500/DAB detection;



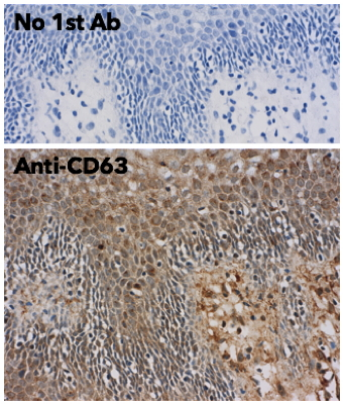
Immunofluorescence – anti-CD63 Ab in Hepa1-6 cells at 1/50 dilution; cells were fixed with 4% of PFA;



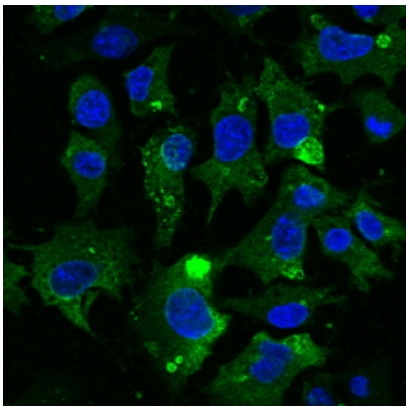
IHC of human pancreas using anti-CD63 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CD63 Ab at 1:500/DAB detection;



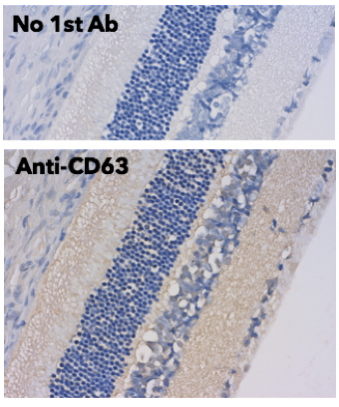
Anti-CD63 Ab at 1/2,500 dilution; lysate at 50 µg per lane; Rabbit polyclonal to goat IgG (HRP) at 1/10,000 dilution;



IHC of human cervix using anti-CD63 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CD63 Ab at 1:500/DAB detection;



Immunofluorescence – anti-CD63 Ab in Hepa1-6 cells at 1/50 dilution; cells were fixed with 4% of PFA;



IHC of rat eye using anti-CD63 antibody and FFPE tissue after heat-induced antigen retrieval. Anti-CD63 Ab at 1:500/DAB detection;

For research use only, not for diagnostic use

In order to produce high specific antibodies SICGEN has invested a lot of time and effort into selecting immunogen sequences. SICGEN has decided to protect this information by not publishing it on the website. However, these sequences are available on request.