abcam

ab275373

Anti-CTAG1B antibody [OTI4D8] - BSA and Azide free

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.3 Constituents: PBS, 8% Trehalose
Form	Lyophilized
Clonality	Monoclonal
Immunogen	Recombinant Full Length Protein corresponding to Human CTAG1A. Database link P78358
Carrier free	Yes
Clone number	OTI4D8
Purification technique	Affinity purification Protein A/G
Reconstitution	reconstitute with water at 100µL
Purification notes	Purified from TCS.

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	1/150

Notes	-

Not recommended

Species	Transfected cell line, Transfected cell lysate - Human
Dilution info	-
Notes	-

ICC

Tested

Species	Transfected cell line
Dilution info	1/100
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Transfected cell lysate - Human
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell line, Transfected cell lysate - Human
Dilution info	-
Notes	-

WB

Tested

Species	Transfected cell lysate - Human
Dilution info	1/2000
Notes	-

Species	Human
Dilution info	1/2000
Notes	-

Not recommended

Species	Transfected cell line
Dilution info	-
Notes	-

Target data

See full target information CTAG1A

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	CTAG1B also known as NY-ESO-1 is a cancer/testis antigen with an approximate molecular mass of 22 kDa. This protein is absent in most normal tissues but shows expression in the testes and a variety of tumors. CTAG1B is recognized for its potential role in immune targeting due to its restricted expression profile. The protein plays a part in antigenic presentation and stimulates T-cell response making it a significant focus for cancer immunotherapy research.
Biological function summary	CTAG1B is involved in the immune response against tumors. It is part of the group called cancer/testis antigens due to its low expression in normal tissues except the testes. This restricted pattern allows CTAG1B to function in distinguishing between tumor and normal cells which is important for targeted therapies. It does not belong to a specific multiprotein complex but contributes to immune recognition by presenting as an antigenic determinant.
Pathways	CTAG1B engages predominantly in cellular processes associated with the immune system's adaptive arm. It plays a role in the antigen processing and presentation pathway where it functions to engage CD8+ T cells. The protein associates with other antigens expressed in cancer such as MAGE-A1 in enabling an immune response against tumor cells. By acting alongside these proteins CTAG1B supports pathways leading to the recognition and destruction of malignant cells.
Associated diseases and disorders	CTAG1B shows a strong connection to cancer particularly in melanoma and ovarian cancer. It is considered a biomarker for these cancers due to its restricted expression and detection in tumor tissues. In cancer CTAG1B interacts with immune checkpoint proteins such as PD-L1 where it helps sustain and enhance immune responses. This relationship has made CTAG1B a promising target in immunotherapy aiming to improve cancer treatment outcomes.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

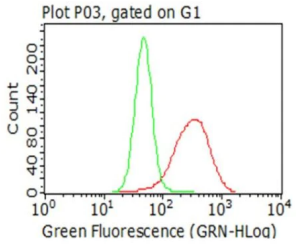
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In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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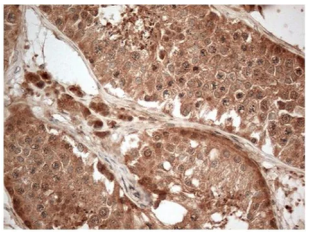
7 product images



Flow Cytometry - Anti-CTAG1B antibody [OTI4D8] - BSA and Azide free (ab275373)

CTAG1B Flow Cytometry staining using mouse Anti-CTAG1B antibody

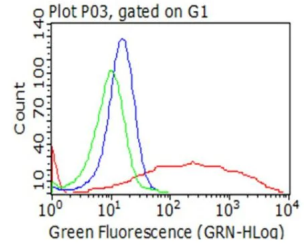
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide.
Flow cytometric analysis of living NCI-H1299 (Human lung carcinoma cell line) cells, using anti-CTAG1B antibody (Red), compared to an isotype control (green) at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTAG1B antibody [OTI4D8] - BSA and Azide free (ab275373)

CTAG1B Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-CTAG1B antibody

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide.
Paraffin embedded human testis tissue stained for CTAG1B using a mouse monoclonal [OTI4D8] to CTAG1B at 1/150 dilution in immunohistochemical analysis. Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer, pH9.0, 120°C for 3mins.

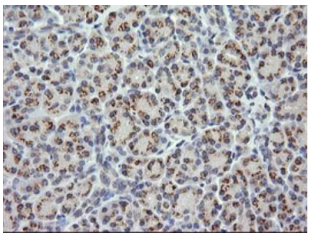


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CTAG1B Flow Cytometry staining using mouse Anti-CTAG1B antibody

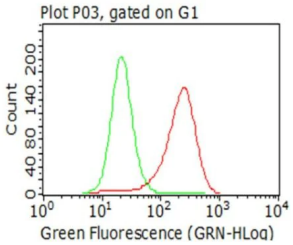
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide.

Flow cytometric analysis of living HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) cells transfected with CTAG1B overexpression plasmid (Red) and empty vector (Blue) using anti-CTAG1B antibody. Cells incubated with a non-specific antibody (Green) were used as isotype control at 1/100 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTAG1B antibody [OTI4D8] - BSA and Azide free (ab275373)

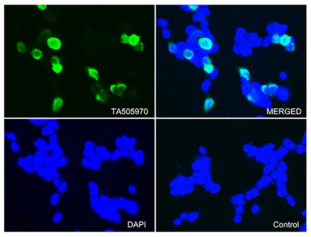
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide.
Paraffin embedded human pancreas tissue stained for CTAG1B using a mouse monoclonal [OTI4D8] to CTAG1B at 1/150 dilution in immunohistochemical analysis. Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3mins.



Flow Cytometry - Anti-CTAG1B antibody [OTI4D8] - BSA and Azide free (ab275373)

CTAG1B Flow Cytometry staining using mouse Anti-CTAG1B antibody

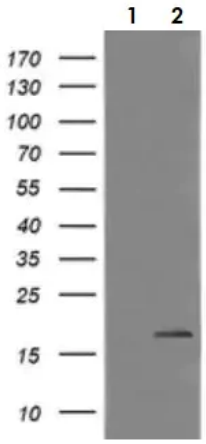
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide.
Flow cytometric analysis of living A-375 (Human malignant melanoma cell line) cells, using anti-CTAG1B antibody (Red), compared to an isotype control (green) at 1/100 dilution.



Immunocytochemistry - Anti-CTAG1B antibody [OTI4D8] - BSA and Azide free (ab275373)

CTAG1B Immunocytochemistry staining using mouse Anti-CTAG1B antibody

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide.
COS-7 (African green monkey kidney fibroblast-like cell line) cells transiently transfected by pCMV6-ENTRY CTAG1B stained for CTAG1B (green) using a mouse monoclonal [OTI4D8] to CTAG1B at 1/100 dilution in ICC.



Western blot - Anti-CTAG1B antibody [OTI4D8] - BSA and Azide free (ab275373)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide.
Transfected for 48 hrs then lysed.

All lanes:
Mouse monoclonal [OTI4D8] to CTAG1B at 1/2000 dilution

Lane 1:
HEK-293T cells transfected with pCMV6-ENTRY control cDNA at 5 µg

Lane 2:
HEK-293T cells were transfected with pCMV6-ENTRY CTAG1B cDNA at 5 µg

Predicted band size: 18 kDa

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