abcam

ab223498

Anti-CTAG1B antibody [SP349]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.6 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	SP349
Purification technique	Affinity purification Protein A/G
Concentration	0.384 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/100
Notes	-

WB

Tested

Species	Human
Dilution info	1/100
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1/100
Notes	-

Target data

See full target information CTAG1A

Storage

Shipped at conditions	Conditional Ambient
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

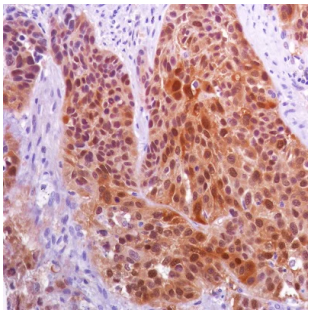
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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

Full details and terms and conditions can be found here:
Terms & Conditions.

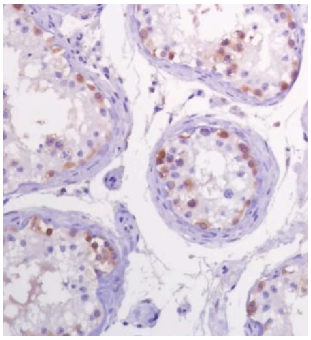
7 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTAG1B antibody [SP349] (ab223498)

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

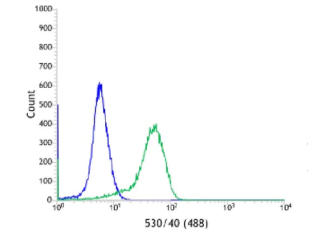
Formalin-fixed paraffin-embedded human lung squamous cell carcinoma tissue stained for CTAG1B with ab223498 at 1/100 dilution in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTAG1B antibody [SP349] (ab223498)

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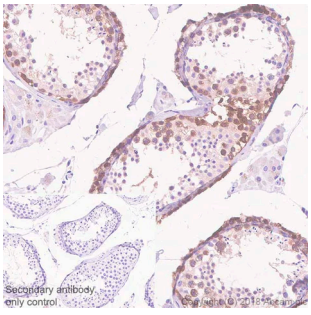
Formalin-fixed paraffin-embedded human testis tissue stained for CTAG1B using ab223498 at 1/100 dilution in immunohistochemical analysis.



Flow Cytometry - Anti-CTAG1B antibody [SP349] (ab223498)

CTAG1B Flow Cytometry staining using rabbit Anti-CTAG1B antibody

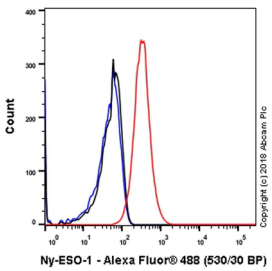
Flow cytometric analysis of ab223498 staining HeLa (human epithelial cell line from cervix adenocarcinoma) cells for CTAG1B (green) at 1/100 dilution compared to negative control of rabbit IgG (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTAG1B antibody [SP349] (ab223498)

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

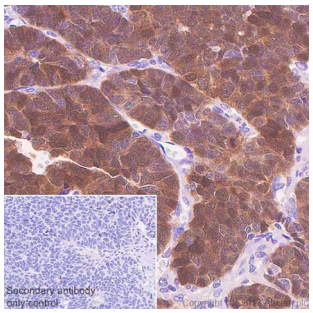
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human testis tissue sections labeling CTAG1B with Purified ab223498 at 1/100 dilution (3.83 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Goat Anti-Rabbit & Mouse IgG (HRP) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Flow Cytometry - Anti-CTAG1B antibody [SP349] (ab223498)

CTAG1B Flow Cytometry staining using rabbit Anti-CTAG1B antibody

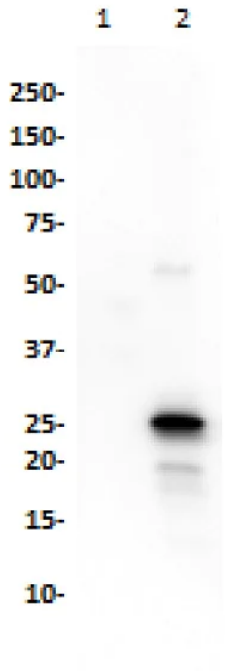
Flow Cytometry analysis of NCI-H1299 (human lung carcinoma epithelial cell) cells labeling CTAG1B with purified ab223498 at 1:380 dilution (1.01 µg/ml) - Red. Cells were fixed with 4% paraformaldehyde . A Goat anti rabbit IgG (Alexa Fluor® 488, ab150081) secondary antibody was used at 1:2000 dilution. Isotype control - Rabbit monoclonal IgG (ab172730) - Black. Unlabeled control - Blue.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CTAG1B antibody [SP349] (ab223498)

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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human gastric carcinoma tissue sections labeling CTAG1B with Purified ab223498 at 1/100 dilution (3.83 µg/ml). Heat mediated antigen retrieval was performed Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Goat Anti-Rabbit & Mouse IgG (HRP) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-CTAG1B antibody [SP349] (ab223498)

All lanes:
Western blot - Anti-CTAG1B antibody [SP349] (ab223498) at 1/100 dilution

Lane 1:
HEK-293 (human epithelial cell line from embryonic kidney) transfected with LAGE-1 cell lysate.

Lane 2:
HEK-293 (human epithelial cell line from embryonic kidney) CTAG1B isoform1a transfected cell lysate.

Predicted band size: 18 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.