abcam

ab270727

Anti-OX40/CD134 antibody [OX40/3108]

Recombinant

Key facts

Isotype	IgG2c
Host species	Mouse
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human TNFRSF4 aa 50-250. The exact immunogen used to generate this antibody is proprietary information. Database link P43489
Clone number	OX40/3108
Purification technique	Affinity purification Protein A/G
Light chain type	kappa
Concentration	0.2 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from Bioreactor Concentrate.

Reactivity data

Flow Cyt

Tested

Species	Human

Dilution info	1-2 µg for 10^6 Cells
Notes	-

Predicted

Species	Chimpanzee
Dilution info	-
Notes	-

Not recommended

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

Protein Array

Tested

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

Expected

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

Predicted

Species	Chimpanzee
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	1-2 µg/mL
Notes	-

Predicted

Species	Chimpanzee
Dilution info	-
Notes	-

Not recommended

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	1-2 µg/mL
Notes	-

Predicted

Species	Chimpanzee
Dilution info	-
Notes	-

Not recommended

Species	Recombinant full length protein - Human
Dilution info	-

Notes	-

Target data

See full target information OX40/CD134

Function	Receptor for TNFSF4/OX40L/GP34. Is a costimulatory molecule implicated in long-term T-cell immunity. (Microbial infection) Acts as a receptor for human herpesvirus 6B/HHV-6B.

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	CD134 also known as OX40 or TNFRSF4 is a receptor that plays an essential role in immune response regulation. This receptor is part of the tumor necrosis factor receptor (TNFR) superfamily and has a molecular mass of approximately 50 kDa. CD134 is expressed on activated T cells particularly CD4+ T cells and is present on various other immune cells under specific conditions. The receptor binds to the OX40L its ligand which is expressed on antigen-presenting cells such as dendritic cells and B cells.
Biological function summary	CD134 influences T cell proliferation survival and memory formation being an important component of the immune system's adaptive response. OX40L engagement with CD134 enhances the activation and survival of T cells promoting long-term immunity. This interaction does not form part of a larger complex but functions as a direct signaling mechanism that augments T cell receptor (TCR) signaling leading to increased cytokine production and sustained immune responses essential for controlling infections and cancer.

Pathways	CD134 signaling intersects with the nuclear factor-kappa B (NF-κB) and phosphoinositide 3-kinase (PI3K) pathways. These pathways play significant roles in regulating immune responses and cell survival. Through the NF-κB pathway CD134 influences gene transcription related to immune activation. It also connects with other immune regulatory proteins such as CD28 which further potentiates T cell responses and enhances effector functions.
Associated diseases and disorders	CD134 has connections to autoimmune diseases and cancers. Overactivity of the CD134-OX40L pathway can lead to exacerbated autoimmune conditions such as lupus. This receptor has also been implicated in tumor immunity where its activation enhances the anti-tumor response of T cells. CD134 interacts with CTLA-4 another immune checkpoint protein playing a role in balancing immune activation and regulation within these disease contexts.

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

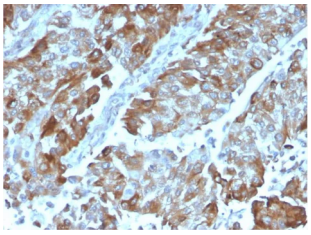
We do not recommend this combination. It is not covered by our product promise.

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.

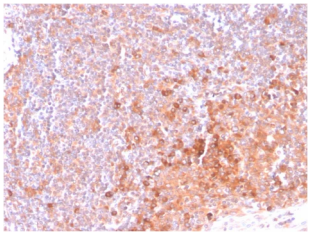
6 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OX40/CD134 antibody [OX40/3108] (ab270727)

OX40/CD134 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-OX40/CD134 antibody

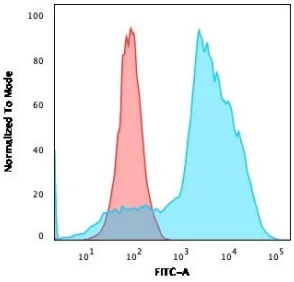
Formalin-fixed, paraffin-embedded human renal cell carcinoma tissue stained for CD134/OX40L using ab270727 at 2 µg/ml in immunohistochemical analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OX40/CD134 antibody [OX40/3108] (ab270727)

OX40/CD134 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-OX40/CD134 antibody

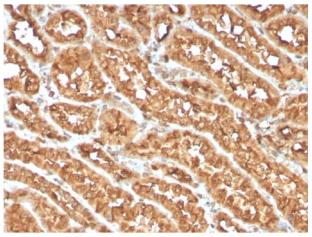
Formalin-fixed, paraffin-embedded human tonsil tissue stained for CD134/OX40L using ab270727 at 2 µg/ml in immunohistochemical analysis.



Flow Cytometry - Anti-OX40/CD134 antibody [OX40/3108] (ab270727)

OX40/CD134 Flow Cytometry staining using mouse Anti-OX40/CD134 antibody

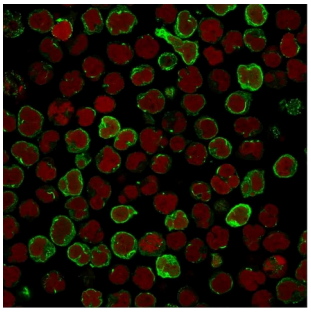
Flow cytometry analysis of human MOLT4 cells labeling CD134/OX40L (Blue) using ab270727 at 2 µg/ml, followed by goat anti-mouse IgG conjugated to CF488. Isotype control (Red).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OX40/CD134 antibody [OX40/3108] (ab270727)

OX40/CD134 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-OX40/CD134 antibody

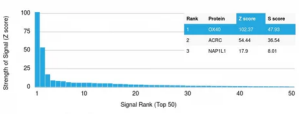
Formalin-fixed, paraffin-embedded human renal cell carcinoma tissue stained for CD134/OX40L using ab270727 at 2 µg/ml in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-OX40/CD134 antibody [OX40/3108] (ab270727)

OX40/CD134 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-OX40/CD134 antibody

Immunofluorescence analysis of human MOLT4 cells labeling CD134/OX40L (Green) using ab270727 at 2 µg/ml, followed by goat anti-mouse IgG conjugated to CF488. Nuclei are stained with Reddot (Red).



Protein Array - Anti-OX40/CD134 antibody [OX40/3108] (ab270727)

Analysis of Protein Array containing more than 19,000 full-length human proteins using ab270727.

Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

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