abcam

# ab243898

# Anti-OX40/CD134 antibody [BLR042F]

Recombinant

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Storage buffer** | pH: 7.8 - 8.6 Preservative: 0.09% Sodium azide Constituents: 98% Borate buffered saline, 0.1% BSA |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | Recombinant Fragment Protein within Human TNFRSF4. The exact immunogen used to generate this antibody is proprietary information. Database link P43489 |
| **Clone number** | BLR042F |
| **Purification notes** | Recombinant antibody was purified from cell culture supernatant. |

## Reactivity data

## ICC

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

## IP

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

## Flow Cyt

### Expected

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/20 - 1/100 |
| **Notes** | - |

## WB

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/1000 |
| **Notes** | - |

## IHC-P

### Tested

| | |
|---|---|
| **Species** | 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** | +4°C |
| **Aliquoting information** | Upon delivery aliquot |
| **Storage information** | Avoid freeze / thaw cycle |

## Notes

**REACH authorisation**
Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.
It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

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## 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**

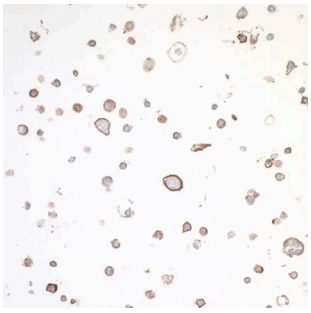
We do not recommend this combination. It is not covered by our product promise.

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:
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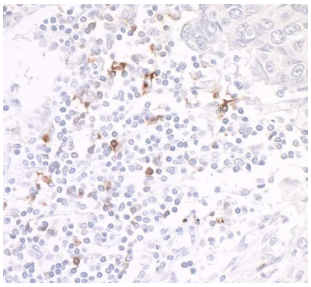
## 5 product images



### Immunocytochemistry - Anti-OX40/CD134 antibody [BLR042F] (ab243898)

OX40/CD134 Immunocytochemistry staining using rabbit Anti-OX40/CD134 antibody

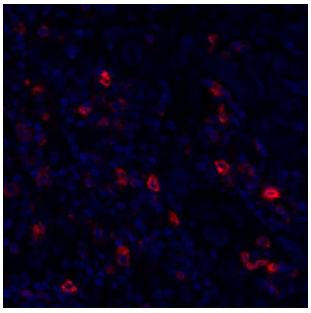
Formalin-fixed, paraffin-embedded MJ cells labeling CD134 / OX40L using ab243898 at 1/250 dilution in ICC analysis. A HRP-conjugated goat-anti rabbit IgG was used as the secondary. DAB staining.



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OX40/CD134 antibody [BLR042F] (ab243898)

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

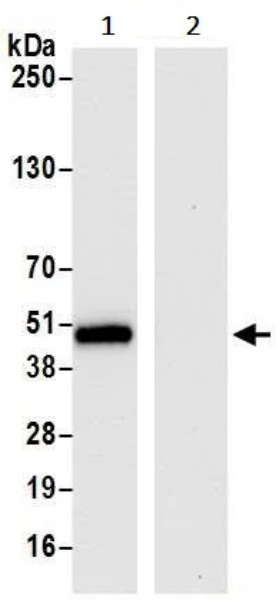
Formalin-fixed, paraffin-embedded human lung carcinoma tissue stained for CD134 / OX40L using ab243898 at 1/250 dilution in immunohistochemical analysis. A HRP-conjugated goat anti-rabbit antibody was used as the secondary. DAB staining.



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-OX40/CD134 antibody [BLR042F] (ab243898)

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

Immunohistochemical analysis of formalin-fixed, parafin-embedded human breast carcinoma tissue labeling CD134 / OX40L with ab243898 at 1/250 dilution, followed by HRP-conjugated Goat Anti-Rabbit IgG secondary antibody. Counter stained with DAPI. Opal staining.



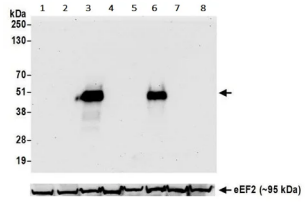

## Immunoprecipitation - Anti-OX40/CD134 antibody [BLR042F] (ab243898)

CD134 / OX40L was immunoprecipitated from 1.0 mg MJ whole cell lysate with ab243898 at 20 µl per reaction. Western blot was performed on the immunoprecipitate using ab243898 at 1/1000 dilution. Lane 1: ab243898 IP in MJ whole cell lysate.
Lane 2: Control IgG in MJ whole cell lysate.

Detection: Chemiluminescence with an exposure time of 30 seconds.

All lanes:
Immunoprecipitation - Anti-OX40/CD134 antibody [BLR042F] (ab243898)

Predicted band size: 29 kDa




## Western blot - Anti-OX40/CD134 antibody [BLR042F] (ab243898)

OX40/CD134 Western blot staining using rabbit Anti-OX40/CD134 antibody

Western blot analysis using ab243898 at 1/1000 dilution.
Lane 1: HEK-293T whole cell lysate (50 µg).

Lane 2: MCF7 whole cell lysate (50 µg).

Lane 3: HepG2 whole cell lysate (50 µg).

Lane 4: A549 whole cell lysate (50 µg).

Lane 5: SW 620 whole cell lysate (50 µg).

Lane 6: SK whole cell lysate (50 µg).

Lane 7: Jurkat whole cell lysate (50 µg).

Lane 8: TCMK-1 whole cell lysate (50 µg).

Lane 9: NIH/3T3 whole cell lysate (50 µg).

A HRP-conjugated goat anti-rabbit IgG antibody was used as the secondary. Detection: chemiluminescence with an exposure time of 10 seconds.
All lanes:
Western blot - Anti-OX40/CD134 antibody [BLR042F] (ab243898)

Predicted band size: 29 kDa

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