abcam

## Product datasheet

# Anti-ROMO1 antibody [OTI2C12] ab236409

13 Images

### Overview

| | |
|---|---|
| **Product name** | Anti-ROMO1 antibody [OTI2C12] |
| **Description** | Mouse monoclonal [OTI2C12] to ROMO1 |
| **Host species** | Mouse |
| **Tested applications** | **Suitable for:** WB, ICC/IF, IHC-P |
| **Species reactivity** | **Reacts with:** Mouse, Dog, Human, African green monkey<br>**Predicted to work with:** Cow, Pig |
| **Immunogen** | Recombinant full length protein corresponding to Human ROMO1 aa 1 to the C-terminus. (NP_542786) produced in HEK-293T cells.<br>Database link: **P60602**<br>Run BLAST with Run BLAST with |
| **Positive control** | WB: HepG2, HeLa, SVT2, A549, COS-7, Jurkat and MDCK whole cell lysates; pCMV6-ENTRY ROMO1 transfected HEK-293T whole cell lysate. IHC-P: Human breast, breast adenocarcinoma, colon adenocarcinoma, ovary adenocarcinoma, endometrial adenocarcinoma, normal pancreas, thyroid carcinoma, normal prostate and normal kidney tissue. ICC/IF: COS-7 and HeLa cells. |
| **General notes** | Clone OTI2C12 (formerly 2C12)<br><br>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.<br><br>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

### Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| **Storage buffer** | pH: 7.30<br>Preservative: 0.02% Sodium azide<br>Constituents: PBS, 1% BSA, 50% Glycerol |

| | |
|---|---|
| **Purity** | Affinity purified |
| **Purification notes** | Purified from cell culture supernatant. |
| **Clonality** | Monoclonal |
| **Clone number** | OTI2C12 |
| **Isotype** | IgG1 |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab236409 in the following tested applications.

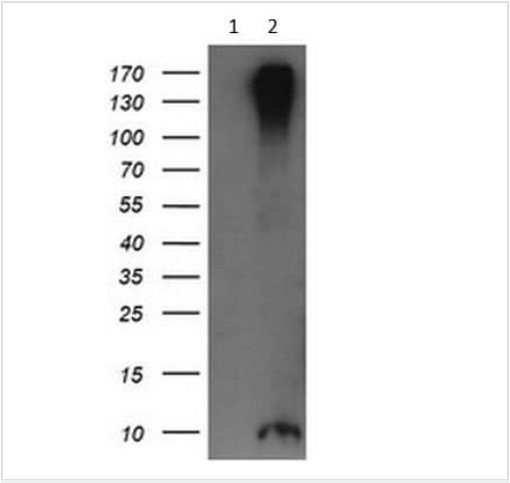
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **WB** | | 1/2000. Predicted molecular weight: 8 kDa. |
| **ICC/IF** | | 1/100. |
| **IHC-P** | | 1/150.<br>Heat-induced epitope retrieval by 10 mM citric buffer, pH 6.0, 100°C for 10 minutes |

## Target

| | |
|---|---|
| **Function** | Induces production of reactive oxygen species (ROS) which are necessary for cell proliferation. May play a role in inducing oxidative DNA damage and replicative senescence. |
| **Tissue specificity** | Up-regulated in a number of cancer cell lines when compared to a normal lung fibroblast cell line. |
| **Sequence similarities** | Belongs to the MGR2 family. |
| **Developmental stage** | Expression increases in senescent cells. |
| **Cellular localization** | Mitochondrion membrane. |

## Images



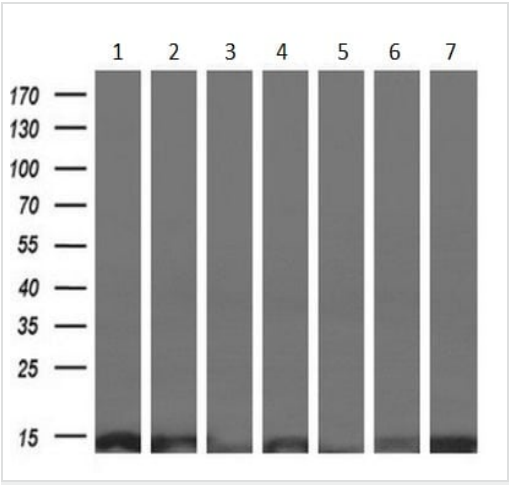

Western blot - Anti-ROMO1 antibody [OTl2C12] (ab236409)

**All lanes :** Anti-ROMO1 antibody [OTl2C12] (ab236409) at 1/2000 dilution

**Lane 1 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with pCMV6-ENTRY control, whole cell lysate
**Lane 2 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with pCMV6-ENTRY ROMO1, whole cell lysate

Lysates/proteins at 5 µg per lane.

**Predicted band size:** 8 kDa



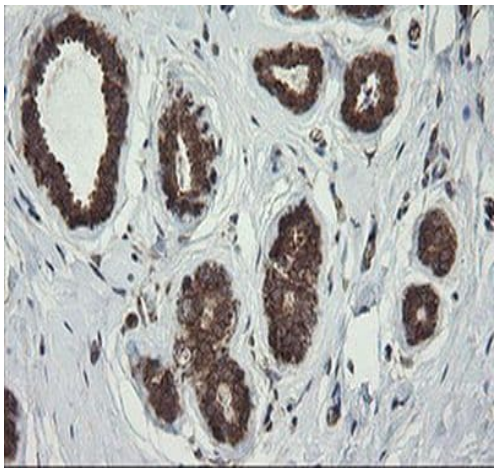

Western blot - Anti-ROMO1 antibody [OTl2C12] (ab236409)

**All lanes :** Anti-ROMO1 antibody [OTl2C12] (ab236409) at 1/2000 dilution

**Lane 1 :** HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate
**Lane 2 :** HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate
**Lane 3 :** SV-T2 (Mouse cell line) whole cell lysate
**Lane 4 :** A549 (human epithelial cell line from cervix adenocarcinoma) whole cell lysate
**Lane 5 :** COS-7 (African green monkey kidney fibroblast-like cell line) whole cell lysate
**Lane 6 :** Jurkat (human T cell leukemia cell line from peripheral blood) whole cell lysate
**Lane 7 :** MDCK (canine kidney cell line) whole cell lysate

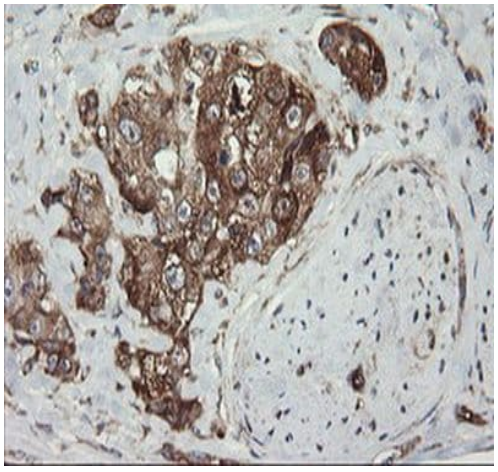
Lysates/proteins at 10 µg per lane.

**Predicted band size:** 8 kDa



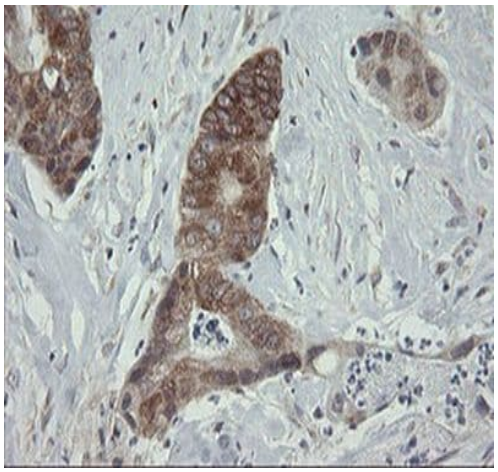
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROMO1 antibody [OTI2C12] (ab236409)

Paraffin-embedded human breast tissue stained for ROMO1 using ab236409 at 1/150 dilution in immunohistochemical analysis.



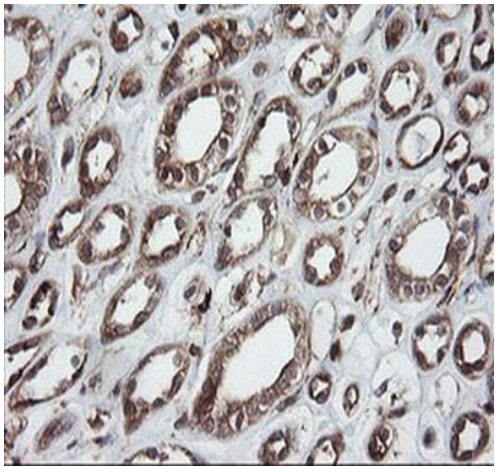
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROMO1 antibody [OTI2C12] (ab236409)

Paraffin-embedded human breast adenocarcinoma tissue stained for ROMO1 using ab236409 at 1/150 dilution in immunohistochemical analysis.



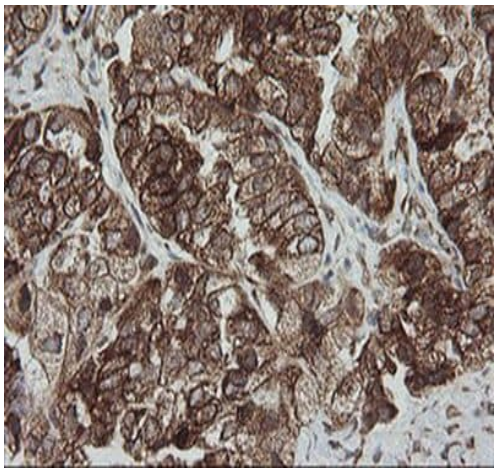
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROMO1 antibody [OTI2C12] (ab236409)

Paraffin-embedded human colon adenocarcinoma tissue stained for ROMO1 using ab236409 at 1/150 dilution in immunohistochemical analysis.



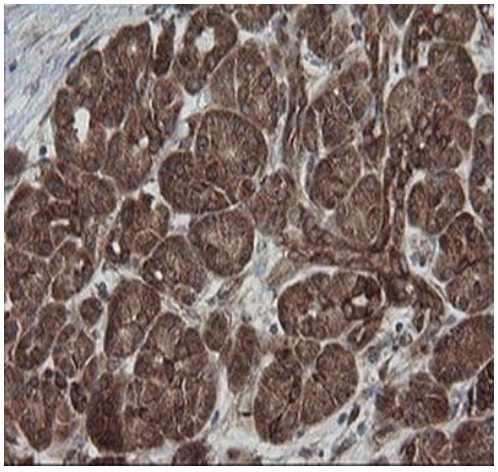
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROMO1 antibody [OTI2C12] (ab236409)

Paraffin-embedded human kidney tissue stained for ROMO1 using ab236409 at 1/150 dilution in immunohistochemical analysis.



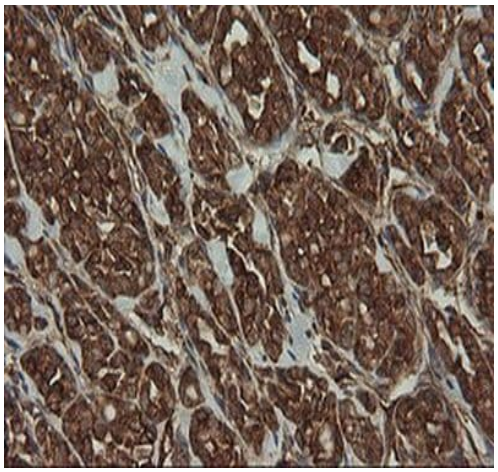
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROMO1 antibody [OTI2C12] (ab236409)

Paraffin-embedded human ovary adenocarcinoma tissue stained for ROMO1 using ab236409 at 1/150 dilution in immunohistochemical analysis.



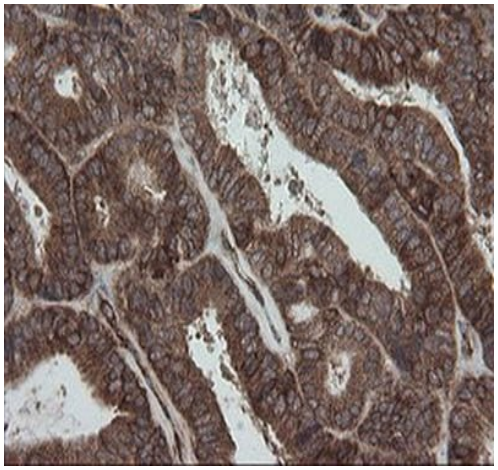
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROMO1 antibody [OTI2C12] (ab236409)

Paraffin-embedded human pancreas tissue stained for ROMO1 using ab236409 at 1/150 dilution in immunohistochemical analysis.



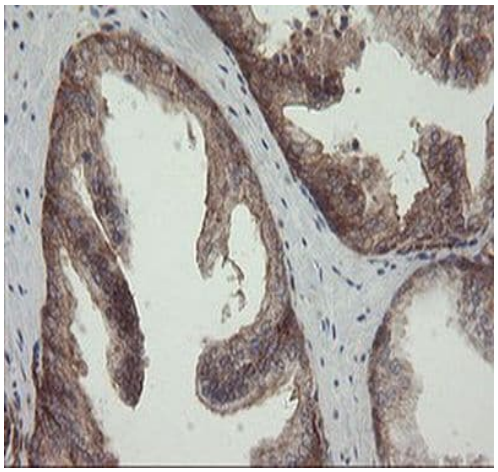
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROMO1 antibody [OTI2C12] (ab236409)

Paraffin-embedded human thyroid tissue stained for ROMO1 using ab236409 at 1/150 dilution in immunohistochemical analysis.



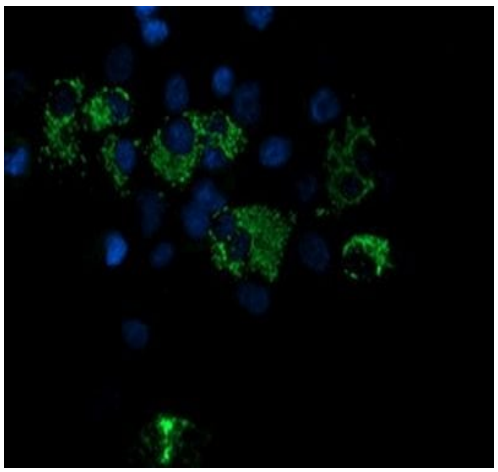
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROMO1 antibody [OTI2C12] (ab236409)

Paraffin-embedded human endometrial adenocarcinoma tissue stained for ROMO1 using ab236409 at 1/150 dilution in immunohistochemical analysis.



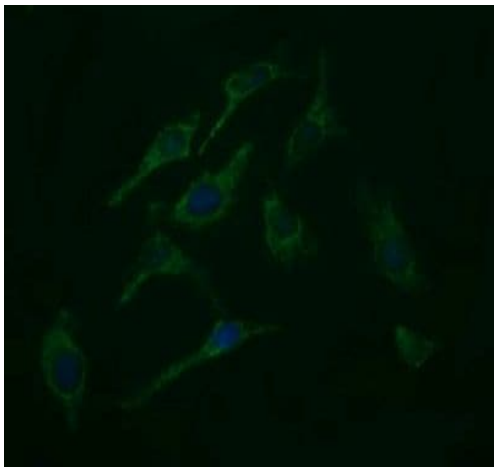
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ROMO1 antibody [OTI2C12] (ab236409)

Paraffin-embedded human prostate tissue stained for ROMO1 using ab236409 at 1/150 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-ROMO1 antibody [OTI2C12] (ab236409)

COS-7 (African green monkey kidney fibroblast-like cell line) cells transiently transfected with pCMV6-ENTRY ROMO1 stained for ROMO1 (green) using ab236409 at 1/100 dilution in ICC/IF.



Immunocytochemistry/ Immunofluorescence - Anti-ROMO1 antibody [OTI2C12] (ab236409)

HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for ROMO1 (green) using ab236409 at 1/100 dilution in ICC/IF.



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