abcam

Product datasheet

Anti-MCL1 antibody ab53709

4 References 4 Images

Overview

Product name	Anti-MCL1 antibody
Description	Rabbit polyclonal to MCL1
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ELISA, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide derived from human MCL1.
Positive control	Human breast carcinoma tissue Extracts from HuvEc cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS, 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab53709** in the following tested applications.

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

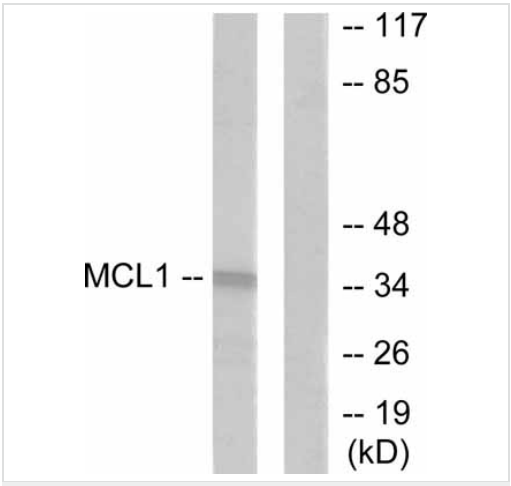
Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 37 kDa (predicted molecular weight: 37 kDa).
IHC-P		Use at an assay dependent concentration.
ELISA		1/20000.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 µg/ml.

Target

Function	Involved in the regulation of apoptosis versus cell survival, and in the maintenance of viability but not of proliferation. Mediates its effects by interactions with a number of other regulators of apoptosis. Isoform 1 inhibits apoptosis. Isoform 2 promotes apoptosis.
Sequence similarities	Belongs to the Bcl-2 family.
Post-translational modifications	Cleaved by CASP3 during apoptosis. In intact cells cleavage occurs preferentially after Asp-127, yielding a pro-apoptotic 28 kDa C-terminal fragment. Rapidly degraded in the absence of phosphorylation on Thr-163 in the PEST region. Phosphorylated on Thr-163. Treatment with taxol or okadaic acid induces phosphorylation on additional sites.
Cellular localization	Membrane. Cytoplasm. Mitochondrion. Nucleus > nucleoplasm. Cytoplasmic, associated with mitochondria.

Images

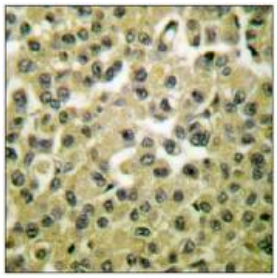


Western blot - MCL1 antibody (ab53709)

All lanes : Anti-MCL1 antibody (ab53709) at 1/500 dilution

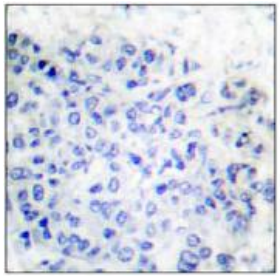
Lane 1 : Extracts from HuvEc cells minus the immunising peptide
Lane 2 : Extracts from HuvEc cells plus the immunising peptide

Predicted band size: 37 kDa
Observed band size: 37 kDa
Additional bands at: 28 kDa. We are unsure as to the identity of these extra bands.



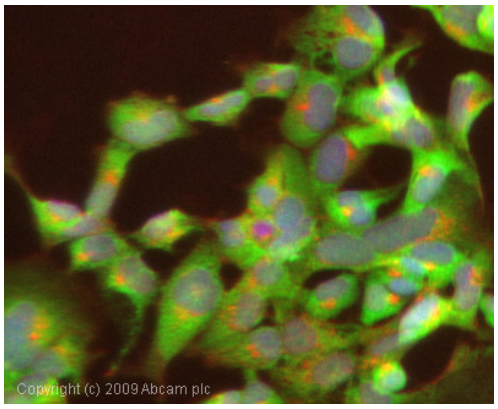
Immunohistochemistry (Paraffin-embedded sections) - MCL1 antibody (ab53709)

ab53709, at a 1/50 dilution, minus immunising peptide, staining Human MCL1 in Breast Carcinoma, using Immunohistochemistry, Paraffin embedded tissue.



Immunohistochemistry (Paraffin-embedded sections) - MCL1 antibody (ab53709)

ab53709, at a 1/50 dilution, plus immunising peptide, staining Human MCL1 in Breast Carcinoma, using Immunohistochemistry, Paraffin embedded tissue.



Immunocytochemistry/ Immunofluorescence-MCL1 antibody(ab53709)

ICC/IF image of ab53709 stained Hek293 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab53709, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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