

## MCL1 antibody

Catalog No: #38113

Package Size: #38113-1 50ul #38113-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

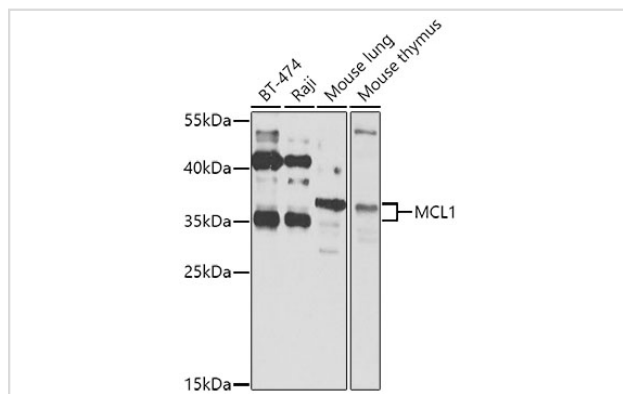
## Description

|                       |                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | MCL1 antibody                                                                                                                                                |
| Host Species          | Rabbit                                                                                                                                                       |
| Clonality             | Polyclonal                                                                                                                                                   |
| Purification          | Antibodies were purified by affinity purification using immunogen.                                                                                           |
| Applications          | WB,IHC,IF                                                                                                                                                    |
| Species Reactivity    | Human,Mouse                                                                                                                                                  |
| Specificity           | The antibody detects endogenous level of total MCL1 protein.                                                                                                 |
| Immunogen Type        | Peptide                                                                                                                                                      |
| Immunogen Description | C term -peptide of human MCL1.                                                                                                                               |
| Conjugates            | Unconjugated                                                                                                                                                 |
| Target Name           | MCL1                                                                                                                                                         |
| Other Names           | MCL1;BCL2L3;EAT;MCL1L;MCL1S;MGC104264;MGC1839;Mcl-1;TM;                                                                                                      |
| Accession No.         | Swiss-Prot#: Q07820NCBI Gene ID: 4170                                                                                                                        |
| SDS-PAGE MW           | 37kd                                                                                                                                                         |
| Concentration         | 1.0mg/ml                                                                                                                                                     |
| Formulation           | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage               | Store at -20°C                                                                                                                                               |

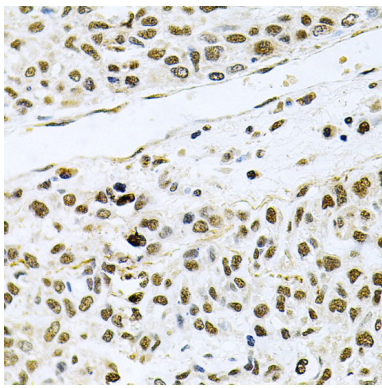
## Application Details

WB 1:500 - 1:2000 IHC 1:100 - 1:200 IF 1:50 - 1:200

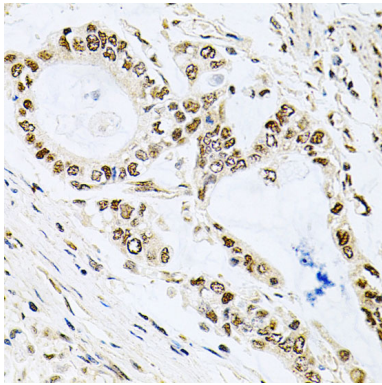
## Images



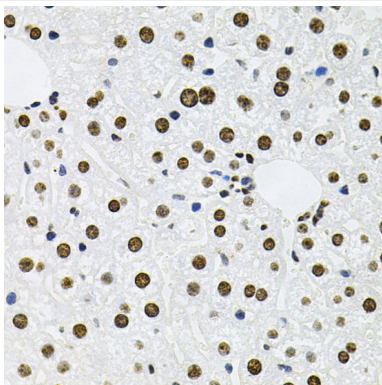
Western blot analysis of extracts of various cell lines, using MCL1 antibody at 1:1000 dilution.



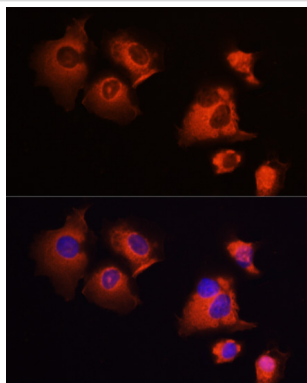
Immunohistochemistry of paraffin-embedded human lung cancer using MCL1 at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded human gastric cancer using MCL1 at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded mouse liver using MCL1 at dilution of 1:100 (40x lens).



Immunofluorescence analysis of A431 cells using MCL1 at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

## Background

Mcl-1 is an anti-apoptotic member of the Bcl-2 family originally isolated from the ML-1 human myeloid leukemia cell line during phorbol ester-induced differentiation along the monocyte/macrophage pathway (1). Similar to other Bcl-2 family members, Mcl-1 localizes to the mitochondria (2), interacts with and antagonizes pro-apoptotic Bcl-2 family members (3), and inhibits apoptosis induced by a number of cytotoxic stimuli (4). Mcl-1 differs from its other family members in its regulation at both the transcriptional and post-translational level. First, Mcl-1 has an extended amino-terminal PEST region, which is responsible for its relatively short half-life (1,2). Second, unlike other family members, Mcl-1 is rapidly transcribed via a PI3K/Akt dependent pathway, resulting in its increased expression during myeloid differentiation and cytokine stimulation (1,5-7). Mcl-1 is phosphorylated in response to treatment with phorbol ester, microtubule-damaging agents, oxidative stress, and cytokine withdrawal (8-11). Phosphorylation at Thr163, the

conserved MAP kinase/ERK site located within the PEST region, slows Mcl-1 protein turnover (10) but may prime the GSK-3 mediated phosphorylation at Ser159 that leads to Mcl-1 destabilization (11). Mcl-1 deficiency in mice results in peri-implantation lethality (12). In addition, conditional disruption of the corresponding mcl-1 gene shows that Mcl-1 plays an important role in early lymphoid development and in the maintenance of mature lymphocytes (13).

## Published Papers

et al., Knockdown of DNMT1 Induces SLC03A1 to Promote Follicular Growth by Enhancing the Proliferation of Granulosa Cells in Mammals. In Int J Mol Sci on 2024 Feb 20 by Shuo Li, Liqing Zeng, et al.. PMID:38473715, , (2024)

[PMID:38473715](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.