For Research Use Only

MCL1 Polyclonal antibody

Catalog Number: 16225-1-AP

Featured Product

146 Publications



Basic Information

Catalog Number: GenBank Accession Number:

 16225-1-AP
 BC 107735

 Size:
 GeneID (NCBI):

 150ul , Concentration: 600 ug/ml by
 4170

Nanodrop; UNIPROT ID: Source: Q07820

Rabbit Full Name:

Isotype: myeloid cell leukemia sequence 1 IgG (BCL2-related)

Immunogen Catalog Number: Calculated MW:

AG10397 350 aa, 37 kDa

Observed MW: 35-40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions: WB: 1:1000-1:8000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC: 1:50-1:500 IF/ICC: 1:50-1:500

FC (Intra): 0.50 ug per 10^6 cells in a

100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications: WB, IHC, IF, IP, CoIP Species Specificity: human, mouse, rat Cited Species: human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Positive Controls:

WB: Jurkat cells, mouse spleen tissue, Raji cells, HL-60 cells, A431 cells, human liver tissue, HEK-293T cells, human brain tissue, K-562 cells, MCF-7 cells, HeLa

cells

IP: Raji cells,

IHC: human ovary cancer tissue,

IF/ICC : MCF-7 cells,
FC (Intra) : Ramos cells,

Background Information

MCL-1 is an anti-apoptotic member of the Bcl-2 family originally isolated from the ML-1 human myeloid leukemia cell line. Similar to BCL2 and BCL2L1, MCL1 can interact with BAX and/or BAK1 to inhibit mitochondria-mediated apoptosis. Mcl-1 is critical for the proliferation and survival of myeloma cells in vitro, and overexpression of Mcl-1 protein in myeloma cells is associated with relapse and short event-free survival in multiple myeloma patients. Recent studies show that MCL-1 is upregulated in numerous haematological and solid tumour malignancies. Therefore, MCL-1 has been suggested as a potential new therapeutic target. MCL-1 can be alternatively spliced into a long form (MCL-1L, 40 kDa) or a short form (MCL-1S, 30 kDa). (PMID: 15467463, PMID: 15147382)

Notable Publications

Author	Pubmed ID	Journal	Application
Yanhui Zhu	36183949	J Ethnopharmacol	IF
Liping Shan	33072561	Front Oncol	WB
Yang Gao	32932732	Int J Mol Sci	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffe

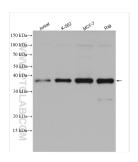
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

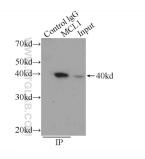
*** 20ul sizes contain 0.1% BSA

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

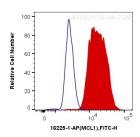
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16225-1-AP (MCL1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



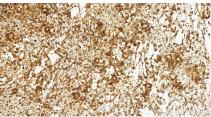
IP result of anti-MCL1 (IP:16225-1-AP, 3ug; Detection:16225-1-AP 1:1000) with Raji cells lysate 800ug.



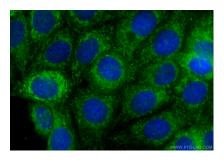
1X10^6 Ramos cells were intracellularly stained with 0.5 ug Anti-Human MCL1 (16225-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit I gG(H+L) at dilution 1:1000 (red), or 0.5 ug Control Antibody. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 16225-1-AP (MCL1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 16225-1-AP (MCL1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using MCL1 antibody (16225-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).