

Anti-MCL1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Pig,Horse,Rabbit)
Molecular Weight:	Theoretical: 39 kDa. Actual: 40 kDa.
Purification:	Protein A purified

Applications

1. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MCL1) Polyclonal Antibody, Unconjugated (TMAB-08663) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

2. Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MCL1) Polyclonal Antibody, Unconjugated (TMAB-08663) at 1: 200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

3. Blank control: K562.

Primary Antibody (green line): Rabbit Anti-MCL1 antibody (TMAB-08663)

Dilution: 1 µg /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody: Goat anti-rabbit IgG-FITC

Dilution: 1 µg /test.

Protocol

Verified Activity:

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

4. Sample:

Lane 1: Lymph node (Mouse) Lysate at 40 µg

Lane 2: Spleen (Mouse) Lysate at 40 µg

Lane 3: Small intestine (Mouse) Lysate at 40 µg

Lane 4: NIH/3T3 (Mouse) Cell Lysate at 30 µg

Lane 5: Lymph node (Rat) Lysate at 40 µg

Lane 6: Spleen (Rat) Lysate at 40 µg

Lane 7: Small intestine (Rat) Lysate at 40 µg

Lane 8: Bone (Rat) Lysate at 40 µg

Lane 9: HL60 (Human) Cell Lysate at 30 µg

Lane 10: A431 (Human) Cell Lysate at 30 µg

Lane 11: K562 (Human) Cell Lysate at 30 µg

Lane 12: MDA-MB-231 (Human) Cell Lysate at 30 µg

Lane 13: Raji (Human) Cell Lysate at 30 µg

Lane 14: A549 (Human) Cell Lysate at 30 µg

Primary: Anti-MCL1 (TMAB-08663) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 39 kD

Observed band size: 40 kD

5. Paraformaldehyde-fixed, paraffin embedded (Mouse embryo); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MCL1) Polyclonal Antibody, Unconjugated (TMAB-08663) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

6. Paraformaldehyde-fixed, paraffin embedded (human lung carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (MCL1) Polyclonal Antibody, Unconjugated (TMAB-08663) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Application: WB,IHC-P,IHC-Fr,IF,FCM

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human MCL1

Antigen Species: Human

Gene ID: 4170

Uniprot ID: Q07820

Research Background

Mcl1 is an anti-apoptotic member of Bcl2 family originally isolated from the ML1 human myeloid leukemia cell line during phorbol ester-induced differentiation along the monocyte/macrophage pathway. Mcl1 localizes to the mitochondria, interacts with and antagonizes pro-apoptotic Bcl2 family members, and inhibits apoptosis by a number of cytotoxic stimuli. It is involved in programming of differentiation and concomitant maintenance of viability but not of proliferation. Isoform 1 inhibits apoptosis while isoform 2 promotes it. Expression increases early during phorbol-ester induced differentiation along the monocyte/macrophage pathway in myeloid leukemia cell lines ML1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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