



MONOCLONAL ANTIBODY

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**Catalog No. XIM-MA001**

## Anti c-Myc [9E10]

### Background:

c-Myc is a very strong proto-oncogene and it is very often found to be upregulated in many types of cancers. Through its role as a transcription factor, c-Myc alters the expression of hundreds of target genes, many of which are themselves oncogenes or tumor suppressors. 9E10 recognises recombinant proteins incorporating a c-Myc epitope tag and detects human c-Myc protein as well as a peptide in random coil configuration not as a helix.

|                             |  |
|-----------------------------|--|
| <b>Applications:</b>        | ChIP, ELISA, IHC, IP, WB   |
| <b>Specificity:</b>         | c-Myc epitope tag  |
| <b>Reactivity:</b>          | Human  |
| <b>Immunogen:</b>           | Synthetic peptide (AEEQKLISEEDLLRKRREQLKHKLEQLRNSCA - 32 aa)<br>corresponding to 408-439 of Human c-Myc conjugated to KLH. |
| <b>Host:</b>                | Mouse  |
| <b>Clonality:</b>           | Monoclonal (clone# 9E10)   |
| <b>Subclass:</b>            | IgG1   |
| <b>Purification method:</b> | Purified from mouse ascites fluids by affinity chromatography (Protein G)  |
| <b>Form:</b>                | Liquid (PBS), no preservatives added   |
| <b>Volume:</b>              | 200 ug   |
| <b>Concentration:</b>       | 1 mg/mL  |
| <b>Storage condition:</b>   | -20 °C   |

### References

- Mateos-Gomez *et al.* 2015. *Nature*. **518**(7538):254-7. PMID: 25642960. (WB)
- Zhang *et al.* 2014. *Genes Dev.* **28**(8):829-34. PMID: 24736842. (ChIP)
- Zhou *et al.* 2012. *J Cell Biol.* **196**(2):203-11. PMID: 22270916. (IP, WB)
- Mendes *et al.* 2010. *J Biol Chem.* **285**(50):39117-26. PMID: 20937822. (IP, WB)
- Royds *et al.* 1992. *J Pathol.* **166**(3):225-33. PMID: 1381423. (IHC)
- Spandidos *et al.* 1987. *Anticancer Res.* **7**(6):1299-304. PMID: 3327455. (IHC)
- Kari *et al.* 1986. *J Virol.* **60**(2):345-52. PMID: 3021969. (IP)
- Evan *et al.* 1985. *Mol Cell Biol.* **5**(12):3610-6. PMID: 3915782. (WB)

## Example Assay Data:

### 1. Sample Preparation

Inserted c-Myc tag to C-terminus end of DasherGFP plasmid vector (DNA2.0)

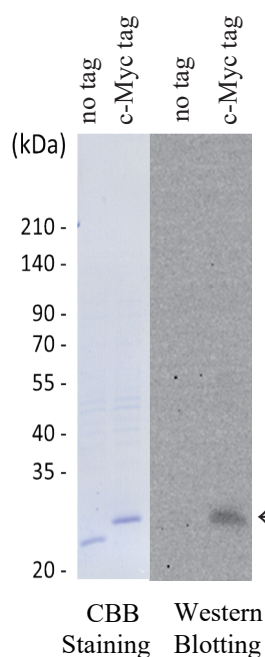
Protein was expressed in *E.coli* and lysed (Crude sample).

Crude sample as separated by SDS-PAGE. Part of the fraction was used for CBB Staining, rest for Western Blotting.

### 2. Western Blotting

Primary Antibody (anti c-Myc [CAC-XIM-MA001]) 1 : 1000 dilution (1µg/mL)

Secondary Antibody (anti mouse IgG-HRP, Bethyl Laboratories, Cat.No. A90-216P) 1 : 3000 dilution



Anti c-Myc [CAC-XIM-MA001] detection of c-Myc tag:

Based on CBB Staining result, c-Myc tagged fluorescent protein had higher molecular weight compared to fluorescent protein only (no tag). Based on Western Blotting result, c-Myc tagged fluorescent protein was detected, though no band was detected with no tag.

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