

Anti-Myc tag Antibody [A3-B4]

EM31105



Product Type:	Mouse monoclonal IgG2b, primary antibodies
Species reactivity:	Species independent
Applications:	WB, IF-Cell, ELISA, FC, IP
Clone number:	A3-B4

Description: Myc gene encodes for a transcription factor that is believed to regulate expression of 15% of all genes through binding on Enhancer Box sequences (E-boxes) and recruiting histone acetyltransferases (HATs). c-Myc is commonly activated in a variety of tumor cells and plays an important role in cellular proliferation, differentiation, apoptosis and cell cycle progression. This Myc-Tag antibody detects Myc-tagged fusion proteins.

Immunogen: Synthetic peptide immune sequence is EQKLISEEDLC-KLH.

Positive control: Myc-tagged recombinant protein.

Recommended Dilutions:

WB	1:2,000
IF-Cell	1:50
FC	1:50-1:100
IP	2-5 µg/ml.

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Protein G affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

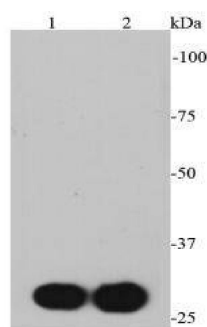


Fig1: Western blot analysis of Myc tag on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (EM31105, 1/2,000) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1:5,000 dilution was used for 1 hour at room temperature.

Positive control:

Lane 1: C-terminal Myc-tagged recombinant protein

Lane 2: N-terminal Myc-tagged recombinant protein

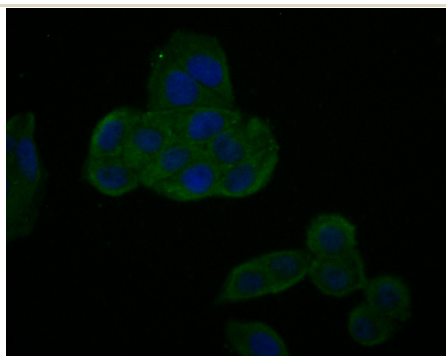


Fig2: ICC staining of Myc tag in HeLa cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with the primary antibody (EM31105, 1/50) for 1 hour at room temperature, washed with PBS. Alexa Fluor@488 Goat anti-Mouse IgG was used as the secondary antibody at 1/1,000 dilution. The nuclear counter stain is DAPI (blue).

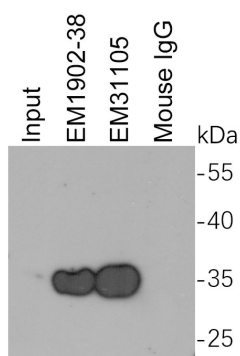


Fig3: Myc tag was immunoprecipitated in 2 μ g C terminal Myc Tag fusion protein lysate with EM31105 at 2 μ g/20 μ l agarose. Western blot was performed from the immunoprecipitate using R1208-1 at 1/1,000 dilution. Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 60 mins at room temperature.

Lane 1: Myc Tag fusion protein lysate (input).

Lane 2: EM1902-38 IP in Myc Tag fusion protein lysate.

Lane 3: EM31105 IP in Myc Tag fusion protein lysate.

Lane 4: Mouse IgG instead of EM31105 in Myc Tag fusion protein lysate.

Blocking/Dilution buffer: 5% NFDN/TBST

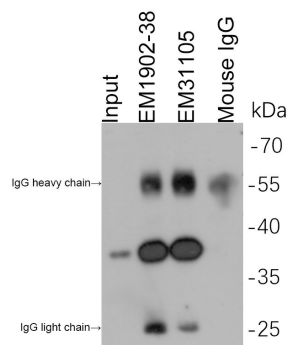


Fig4: Myc tag was immunoprecipitated in 2 μ g N terminal Myc Tag fusion protein lysate with EM31105 at 2 μ g/20 μ l agarose. Western blot was performed from the immunoprecipitate using R1208-1 at 1/1,000 dilution. Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 60 mins at room temperature.

Lane 1: Myc Tag fusion protein lysate (input).

Lane 2: EM1902-38 IP in Myc Tag fusion protein lysate.

Lane 3: EM31105 IP in Myc Tag fusion protein lysate.

Lane 4: Mouse IgG instead of EM31105 in Myc Tag fusion protein lysate.

Blocking/Dilution buffer: 5% NFDN/TRST

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. "A quantitative atlas of mitotic phosphorylation."Dephoure N., Zhou C., Villen J., Beausoleil S.A., Bakalarski C.E., Elledge S.J., Gygi S.P.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008)
2. "Transactivation of gene expression by Myc is inhibited by mutation at the phosphorylation sites Thr-58 and Ser-62."Gupta S., Seth A., Davis R.J. Proc. Natl. Acad. Sci. U.S.A. 90:3216-3220(1993)

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