Data Sheet (Cat.No.TMAB-09137)

Anti-Myc tag Antibody (2V368)

Product Details

Ig Type:	IgG1
Reactivity:	Species independent
Molecular Weight:	Actual: 41 kDa.
Clone:	2V368
Purification:	Protein G purified

Applications

Verified Activity:	8 μg Tags Positive Control Whole Cell Lysate per lane probed with Myc tag monoclonal antibody respectively, unconjugated (TMAB-09137) at 1:5000 dilution and 4°C overnight incubation. Followed by corresponding conjugated secondary antibody incubation at r. T. for 60 min.
Application:	ELISA,FCM,ICC/IF,IF,IHC-Fr,IHC-P,WB
Recommended	ELISA=1:1000-5000; FCM=1 μg/Test; ICC/IF=1:100-500; IF=1:200-1000; IHC-Fr=1:200-1000; IHC-P=1:200-1000; WB=1:2000-10000

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 C-EQKLISEEDL

Research Background

Epitope tags are useful for the labeling and detection of proteins using immunoblotting, immunoprecipitation and immunostaining techniques. Due to their small size, they are unlikely to affect the tagged protein's biochemical properties. The Myc epitope tag is widely used to detect expression of recombinant proteins in bacteria, yeast,insect and mammalian cell systems.
The c-Myc protein is a transcription factor, which is encoded by the c-Myc gene on human chromosome 8q24. 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. The phosphorylation of c-Myc has been investigated and previous studies have suggested a functional association between phosphorylation at Thr58/Ser62 by glycogen synthase kinase 3, cyclin dependent kinase, ERK2 and C-Jun N terminal Kinase (JNK) in cell proliferation and cell cycle regulation. Studies also have shown that c-Myc is essential for tumor cell development in vasculogenesis and angiogenesis that distribute blood throughout the cells, and which brought extensive attention in the development of new therapeutic approach for cancer treatment.

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