

Anti-cMyc phospho-Ser62 antibody, monoclonal (33A12E10)

71-161 50 μ g

cMyc is a proto-oncogene, which is overexpressed in a wide range of human cancers. Myc gene encodes a transcription factor that regulates great number of genes through binding on Enhancer Box sequences (E-boxes) and recruiting histone acetyltransferase. It can also acts as a transcriptional repressor. It regulates cell growth, apoptosis, differentiation and stem cell self-renewal. Previous studies on the phosphorylation of c-Myc 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), and cell proliferation and cell cycle regulation. Phosphorylation at Ser62 is required for Ras-induced stabilization and prerequisite for phosphorylation at Thr58 for its degradation (ref.1).

Application

1. Western blotting ($\sim 1 \mu$ g/ml, Fig.1) 2. ELISA 3. Other applications were not tested.

Specification

Antigen: synthetic peptide containing phospho-Ser62 of cMyc

Isotype: mouse IgG2b (κ)

Form: Purified monoclonal antibody (IgG) 1mg/ml in PBS, 50% glycerol

Reaction: Human . Expected to react with mouse and rat from the sequence identity.

Storage: -20°C (long period, -70°C)

References: This product was used in reference 2.

1. Sears R et al. Genes Dev. 14:2501 (2000)

2. Junttila MR et al. Cell 130: 51 (2007)

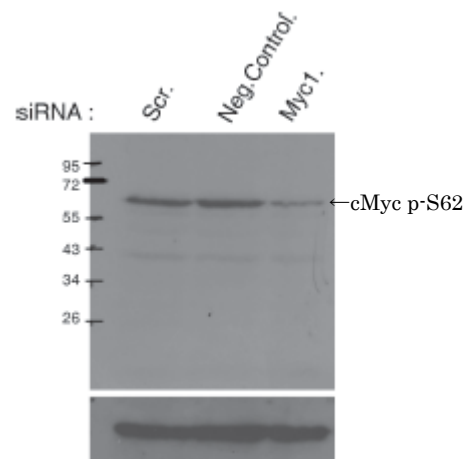
Figure. Identification of cMyc protein whose Ser62 is phosphorylated

by Western blotting. Samples: Crude cell extracts of AGS (gastric

adenocarcinoma) cells. Scr; scrambled siRNA was introduced into the cells as a negative control.

Neg.Control; Negative control siRNA from Qiagen was transfected. Myc1; siRNA for cMyc was transfected. The data was provided by A. Khanna and Dr. J. Westermark of University of Tampere.

User's comment; " It certainly looks that S62-p-Myc antibody specifically recognizes c-Myc protein in human cancer cells and will be a very useful resource for future studies." Dr. Jukka Westermark, Institute of Medical Technology, University of Tampere



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