

Anti-PC4/SUB1 Antibody (5R992)

Product Details

Ig Type:	Mouse IgG1
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5R992
Purification:	Protein A

Applications

Verified Activity:	<p>1. SUB1 was immunoprecipitated using:</p> <ul style="list-style-type: none">-Lane A:0.5 mg HepG2 Whole Cell Lysate.-2 µL anti-SUB1 mouse monoclonal antibody and 15 µl of 50 % Protein G agarose.-Primary antibody:-Anti-SUB1 mouse monoclonal antibody, at 1:100 dilution.-Secondary antibody:-Dylight 800-labeled antibody to Mouse IgG (H+L), at 1:7500 dilution.-Developed using the odyssey technique.-Performed under reducing conditions.-Predicted band size: 17 kDa.-Observed band size: 17 kDa. <p>2. Anti-SUB1 mouse monoclonal antibody at 1:500 dilution.</p> <ul style="list-style-type: none">-Lane A: NIH-3T3 Whole Cell Lysate.-Lane B: Raji Whole Cell lysate.-Lysates/proteins at 30 µg per lane.-Secondary-Goat Anti-Mouse IgG H&L (Dylight800) at 1/15000 dilution.-Developed using the Odyssey technique.-Performed under reducing conditions.-Predicted band size:14 kDa.-Observed band size:16 kDa. <p>3. Immunofluorescence staining of Human SUB1 in MCF7 cells. Cells were fixed with 4% PFA, permeabilized with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with mouse anti-Human SUB1 monoclonal antibody (1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor® 594-conjugated Goat Anti-mouse IgG secondary antibody(red) and counterstained with DAPI(blue). Positive staining was localized to nucleus.</p>
Application:	ICC/IF,IP,WB

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Recommended WB: 1:500-1:2000; ICC-IF: 1:20-1:100; IP: 1-4 μ L/mg of lysate

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. Preservative-Free.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: Human SUB1 / PC4 protein (TMPY-03395)

Antigen Species: Human

Synonyms: P15;PC4;SUB1;SUB1 homolog, transcriptional regulator;RPO2TC1;p14

Research Background

SUB1 belongs to the transcriptional coactivator PC4 family. It is a general coactivator that functions cooperatively with TAFs and mediates functional interactions between upstream activators and the general transcriptional machinery. SUB1 binds single-stranded DNA. Single-stranded DNA-binding proteins play many roles in nucleic acid metabolism, but their importance during transcription remains unclear. SUB1 exhibits strong genetic interactions with factors necessary for promoter melting. It localizes near the transcription bubble in vitro and binds to promoters in vivo dependent upon preinitiation complexes assembly. SUB1 interacts with the nontemplate strand of RNApII complexes during initiation. It may also be involved in stabilizing the multiprotein transcription complex.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481
