Data Sheet (Cat.No.TMAB-11075)

Anti-Phospho-p107 (Thr369) Polyclonal Antibody 2

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Dog,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 121 kDa. Actual: 130 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Blank control: Molt4. Primary Antibody (green line): Rabbit Anti-phospho-p107 (Thr369) antibody (TMAB-11075) Dilution: 2 µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-APC Dilution: 1 µg /test. Protocol The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at-20℃. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed. 2. Sample: Lane 1: Mouse Testis tissue lysates Lane 2: Rat Testis tissue lysates Lane 3: Human HeLa cell lysates Lane 4: Human Jurkat cell lysates Lane 5: Human 293T cell lysates Lane 6: Human U-2 OS cell lysates Primary: Anti-phospho-p107 (Thr369) (TMAB-11075) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 121 kDa Observed band size: 130 kDa 3. Paraformaldehyde-fixed, paraffin embedded Mouse Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with phospho-p107 (Thr369) Polyclonal Antibody, Unconjugated (TMAB-11075) at 1: 200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit) and DAB staining.
Application:	WB,IHC-P,IHC-Fr,IF,FCM
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 2µg/Test

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 synthesised phosphopeptide: human RBL1 around the phosphorylation site of Thr369
Antigen Species:	Human
Gene ID:	5933
Uniprot ID:	P28749

Research Background

The pocket protein family consists of three structurally and functionally related proteins, Rb (retinoblastoma), p107, and p130. This family of tumor suppressors function to regulate important cellular transcription factors, such as the E2F family. The E2F proteins regulate the expression of genes whose products are important for cell cycle progression. The inactivation Rb is catalyzed by CDK phosphorylation thereby releasing E2F during the G1-S phase cellular progression. Unchecked inactivation of Rb in G1 phase has been indicated as a universal mechanism underlying cellular transformation . While Rb has been the most studied among the pocket proteins, p107 and p130 have also been shown to be key regulators of E2F. Several studies have also provided evidence that p107/p130 provide different functions in E2F regulation than does Rb. Rb, p107, and p130 each contain a conserved 'A/B pocket', which is the target of several viral oncoproteins, namely SV40 large T-antigen and adenovirus E1A. There are two isoforms.

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