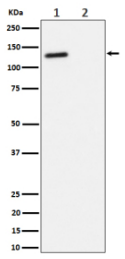
Phospho-RBL2 (pThr986) Antibody / Retinoblastoma-like protein 2 [clone 30R10] (FY12103)

Catalog No.	Formulation	Size
FY12103	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human, Mouse
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	30R10
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	Q08999
Applications	Western blot: 1:500-1:2000 Immunoprecipitation: 1:50
Limitations	This Phospho-RBL2 (pThr986) antibody is available for research use only.



Western blot analysis of Phospho-RBL2 (T986) expression in (1) Jurkat cell lysate; (2) Jurkat cell treated with phosphatase lysate, using Phospho-RBL2 (pThr986) antibody.

Description

Phospho-RBL2 (Thr986) antibody detects retinoblastoma-like protein 2 phosphorylated at threonine 986, a modification

regulating its function in the cell cycle. Also known as p130, RBL2 belongs to the retinoblastoma family of tumor suppressors, which includes RB1 and RBL1. RBL2 represses E2F transcription factors, preventing premature entry into S phase. Phosphorylation of RBL2 at Thr986 disrupts its repressive activity, allowing transcription of genes required for DNA replication and cell cycle progression.

Research using Phospho-RBL2 (Thr986) antibody demonstrates its role in proliferative control and cancer biology. Hyperphosphorylation of RBL2 leads to deregulated E2F activity, promoting uncontrolled growth and oncogenesis. This phosphorylation event is mediated by cyclin-dependent kinases, linking RBL2 regulation to signaling pathways frequently altered in tumors. Thr986 phosphorylation is therefore a valuable marker of cell cycle status and a potential therapeutic target.

Beyond cancer, phosphorylation of RBL2 influences cellular senescence and differentiation. Studies suggest that RBL2 integrates signals from growth factors and stress pathways to determine cell fate decisions. Tracking phospho-RBL2 helps clarify how cells transition between quiescence, proliferation, and terminal differentiation. This information is useful in both basic biology and translational research aiming to control growth in disease contexts.

Antibodies against phospho-RBL2 (Thr986) are validated for western blot, immunohistochemistry, and immunofluorescence. These reagents allow selective detection of the phosphorylated form, ensuring accurate assessment of cell cycle-dependent regulation. Clone-based antibodies provide specificity required to differentiate between phosphorylated and unmodified RBL2.

NSJ Bioreagents provides this Phospho-RBL2 (Thr986) antibody for cancer biology, cell cycle, and signaling research.

Application Notes

Optimal dilution of the Phospho-RBL2 (pThr986) antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human Phospho-p130 (T986) was used as the immunogen for the Phospho-RBL2 (pThr986) antibody.

Storage

Store the Phospho-RBL2 (pThr986) antibody at -20oC.

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