

p130 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP06740
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human RBL2. AA range:918-967
Mol wt	128367
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	IF, ELISA
Concentration	1 mg/ml
Full name	p130 Antibody
Synonyms	RBL2; RB2; Retinoblastoma-like protein 2; 130 kDa retinoblastoma-associated protein; p130; Retinoblastoma-related protein 2; RBR-2; pRb2

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

The retinoblastoma (Rb) tumor suppressor family includes the retinoblastoma protein Rb (p105), retinoblastoma-like protein 1 (RBL1, p107), and retinoblastoma-like protein 2 (RBL2, p130). These Rb family proteins are referred to as ‘pocket proteins’ because they contain a conserved binding pocket region that interacts with critical regulatory proteins, including E2F family transcription factors, c-Abl tyrosine kinase, and proteins containing a conserved LXCXE motif. In quiescent G0 phase cells, active Rb proteins are hypophosphorylated and bind to E2F transcription factors to repress transcription and inhibit cell cycle progression. Upon growth factor induction of quiescent cells, Rb proteins become hyperphosphorylated and inactivated by G1-phase cyclinD-cdk4/6, G1/S-phase cyclin E-cdk2, and G1/S-phase cyclin A-cdk2 complexes. Hyperphosphorylation of Rb proteins results in a loss of E2F binding and allows for transcriptional activation and cell cycle progression. In addition to regulating the cell cycle, Rb proteins regulate chromosome stability, induction, and maintenance of senescence, apoptosis, cellular differentiation, and angiogenesis. Retinoblastoma-like protein 2 (RBL2, p130) is the most predominant and active Rb family member found in quiescent cells. In these cells, RBL2 interacts with E2F4 and E2F5 to recruit the DP, RB-like, E2F, and MuvB protein (DREAM) complex to E2F target genes to repress transcription of multiple genes required for progression into S phase and mitosis. Hypophosphorylation of RBL2 during cellular senescence is required for maintenance of senescent cells.

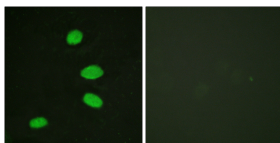
Recommended Dilution

IF: 1: 200 - 1: 1000

ELISA: 1: 5000

Not yet tested in other applications.

Images



Immunofluorescence analysis of HeLa cells, using RBL2 Antibody. The picture on the right is blocked with the synthesized peptide.

Storage

-20°C for one year

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