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Datasheet for K913

Tumor Suppressor Protein Antibody Sampler Kit

Overview

Description:	Tumor Suppressor Protein Antibody Sampler Kit - K913
Item No.:	K913
Size:	1 Kit
Reactivity:	Human, Mouse, Rat

Product Details

Background:	p130, Retinoblastoma-like protein 2 (Rb2), is a key regulator of entry into cell division. It is directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation. p130 recruits and targets histone methyltransferases KMT5B and KMT5C, leading to epigenetic transcriptional repression. It controls histone H4 'Lys-20' trimethylation and probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. It is a potent inhibitor of E2F-mediated trans-activation, associates preferentially with E2F5. It binds to cyclins A and E as well as binds to and may be involved in the transforming capacity of the adenovirus E1A protein. p16, Cyclin Dependent Kinase Inhibitor 2A (CDK2NA), generates several transcripts/proteins which differ from each other in their first exons. In spite of the structural and some functional differences, all the proteins encoded by the CDKN2A gene are capable of inducing cell cycle arrest in G1 and G2 phases. Acts as a negative regulator of the proliferation of normal cells by interacting strongly with CDK4 and CDK6. This inhibits their ability to interact with cyclins D and to phosphorylate the retinoblastoma protein. p27, p27Kip is a cyclin-dependent kinase inhibitor that shares a limited similarity with CDK inhibitor CDKN1A/p21. p27 binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state.
Synonyms:	Anti-p130 (Rb2), Anti-p16, Anti-p27, Goat Anti-Rabbit IgG antibody, Tumor Suppressor Protein Antibodies, antibody sampler kits
Reactivity:	Human, Mouse, Rat

Application Details

Application Note:	Each kit contains one unit of the following products: (100 µL) p/n 100-401-173 Anti-p130 (Rb2) (RABBIT) Antibody (100 µL) p/n 100-401-170 Anti-p16 (RABBIT) Antibody (100 µL) p/n 100-401-172 Anti-p27 (RABBIT) Antibody (100 µg) p/n 611-1322-0100 Anti-RABBIT IgG (H&L) (GOAT) Antibody Peroxidase Conjugated
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,000 - 1:10,000
IP:	1:100
WB:	1:500 - 1:5,000

Formulation

Physical State:	Liquid (sterile filtered)

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Kit Box
This product is assembled as a kit. See attached protocol or CofA for further details.

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Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.