Phospho-Rb (Ser807/811) (D9) rabbit mAb SureLight488 conjugate

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#2055

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For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
Flow Cytometry	N/A	Monoclonal	Rabbit IgGk

Format: SureLight 488

Cross Reactivity: Predicted to work with mouse, rat and other homologues.

Formulation: 1X PBS, 0.09% NaN3, 0.2% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse

Recommended Usage: For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Ser807/811 of human phospho Rb

Description: Retinoblastoma protein (Rb, phospho Rb) is a tumor suppressor protein that is inactivated in a numbr of diverse cancers. The antiproliferative activity of Rb is mediated by its ability to inhibit the transcription of genes that are required for cell cycle progression. Rb contains conserved sites that are phosphorylated by cyclin-dependent kinases (CDKs). CDK phosphorylation typically promotes protein-protien interations through creation of a phospho-epitope that becomes structured upon binding its target. However Rb phosphorylation distrupts interactions with its binding partners. When it is phosphorylated, phospho Rb is inactivated and allows execcisve cell growth that is seen in cancer cells. Sixteen potential sites for CDK-mediated phosphorylation exist in Rb and twelve of these sites have been shown to be phosphorylated in vivo.

References:

1. Burkhart DL et al., (2008) Nat Rev Cancer. 8:671?682.
2. Knudsen ES (2008) Nat Rev Cancer. 8:714?724.
3. Mittnacht S. (1998) Curr Opin Genet Dev. 8:21?27.
4. Weinberg RA. (1995) 81:323?330.
5. Henley SA et al., (2012) Cell Div., 7:10.

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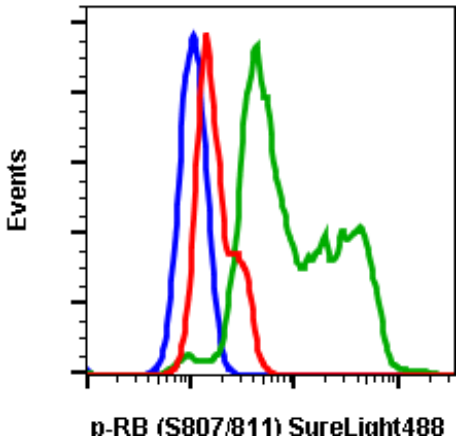

Flow cytometric analysis of U937 cells untreated and unstained as negative control (blue) or untreated and stained (green) or treated with lambda phosphatase and stained (red) using Phospho-Rb (Ser807/811) antibody RBS807S811-D9 SureLight488 conjugate. Cat. #2055.

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