Recombinant Phospho-S6 Ribosomal Protein (Ser235, Ser236) Monoclonal Antibody

catalog number: AN302076L

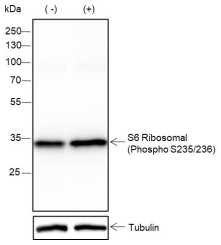
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse
Immunogen	Phosphorylated human S6 ribosomal protein (Ser235/236) peptide
Host	Rabbit
Isotype	IgG, κ
Clone	A796
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:500-1:1000
IHC	1:200-1:1000
IF	1:50

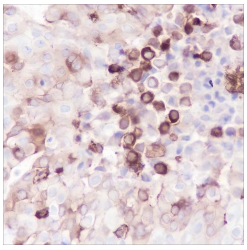
Data



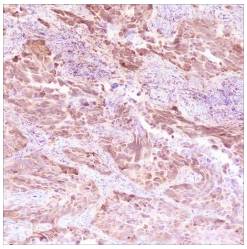
Western Blot with Phospho-S6 Ribosomal Protein (Ser235, Ser236) Monoclonal Antibody at dilution of 1:2000. MCF-7+Serum starvation overnight(-)/ MCF-7+Serum starvation overnight, then grown in 20% FBS media for 30 minutes (+)

Observed-MW:32 kDa

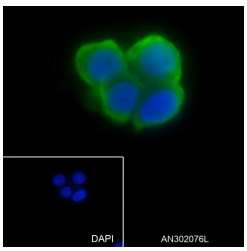
Calculated-MW:29 kDa



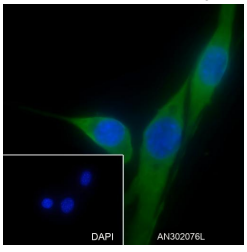
Immunohistochemistry of paraffin-embedded Human breast cancer using Phospho-S6 Ribosomal Protein (Ser235, Ser236) Monoclonal Antibody at dilution of 1: 1000.



Immunohistochemistry of paraffin-embedded Human lung adenocarcinoma using Phospho-S6 Ribosomal Protein (Ser235, Ser236) Monoclonal Antibody at dilution of 1: 1000.



Immunofluorescent analysis of (4% Paraformaldehyde) fixed MCF-7 cells using anti-Phospho-S6 Ribosomal Protein (Ser235, Ser236) Monoclonal Antibody at dilution of 1: 50.



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Immunofluorescent analysis of (4% Paraformaldehyde) fixed NIH/3T3 cells using anti-Phospho-S6 Ribosomal Protein (Ser235, Ser236) Monoclonal Antibody at dilution of 1: 50.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

Ribosomal Protein S6 (RPS6), a highly conserved component of the eukaryotic 40S small ribosomal subunit, functions as a critical regulatory nexus that translates extracellular and intracellular signals into the control of cell growth and proliferation. This activity is tightly governed by the PI3K/Akt/mTOR signaling cascade, a master regulatory pathway that integrates inputs from growth factors and nutrient availability. In response to mitogenic or anabolic stimuli that activate this pathway, the downstream effector kinase p70 S6K1 mediates the hierarchical phosphorylation of RPS6 on a cluster of serine residues located in its C-terminus, with the phosphorylation of the adjacent serines 235 and 236 representing a canonical hallmark of mTORC1 activation. This specific post-translational modification is mechanistically linked to the primary regulatory function of RPS6, which is to facilitate the selective and efficient translation of a specific cohort of messenger RNAs characterized by a 5' terminal oligo-pyrimidine tract (5' TOP).

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