Phospho-Rb (Ser807, Ser811) Recombinant Rabbit Monoclonal Antibody (13H27L9)

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	13H27L9
Conjugate	Unconjugated
Immunogen	Peptide corresponding to human Phospho-Rb (Ser807/Ser811) [aa805-aa814]
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2688292

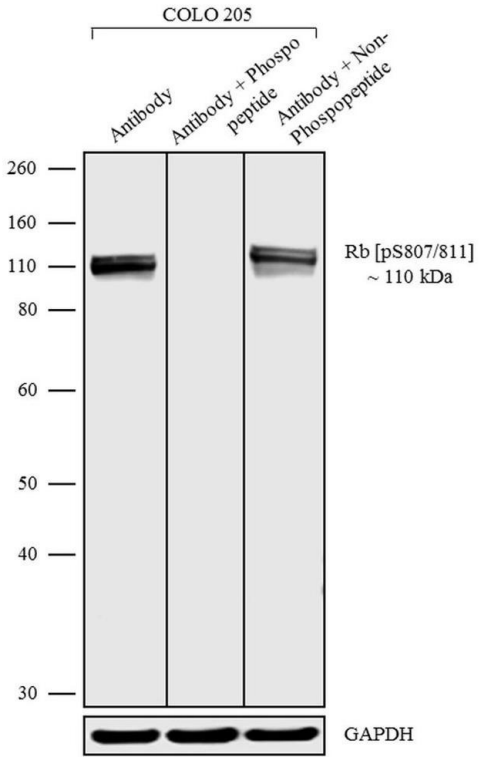
Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	2 µg/mL	-

Product Specific Information

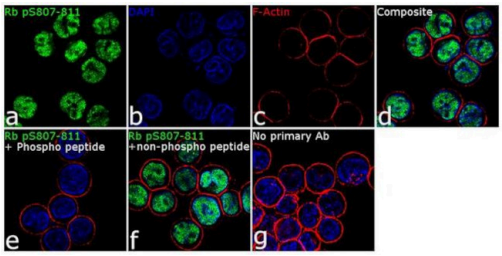
This antibody is predicted to react with Monkey, Bovine, Pig

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For Phospho-Rb (Ser807, Ser811) Recombinant Rabbit Monoclonal Antibody (13H27L9)



Phospho-Rb (Ser807, Ser811) Antibody (702097) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of COLO 205 (Lane 1, 2 & 3). The blots were probed with Anti-phospho-Rb (Ser807 /Ser811) Recombinant Rabbit Monoclonal Antibody (Product # 702097, 1 µg /mL). To confirm the specificity of Phospho-Rb (Ser807/Ser811), competition was performed with the phosphopeptide (10 µg/mL) (Lane 2) and non phosphopeptide (10 µg/mL) (Lane 3). A 110 kDa band corresponding to Phospho-Rb (Ser807/Ser811) was observed as shown. The blots were detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:5000 dilution). Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with wet transfer method. The membrane was probed with the relevant primary and secondary antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



Phospho-Rb (Ser807, Ser811) Antibody (702097) in ICC/IF
For immunofluorescence analysis, COLO 205 cells were fixed and permeabilized for detection of endogenous Phospho Rb (Ser807/Ser811) using Anti- Phospho Rb (Ser807/Ser811) Recombinant Rabbit Monoclonal Antibody (Product # 702097, 2 µg/mL) and labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of Phospho-Rb (Ser807/Ser811) protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of panels a, b and c clearly demonstrating nuclear localization of Phospho-Rb (Ser807/Ser811). Panel e) shows loss of signal by competition with the Phospho-Rb (Ser807/Ser811) phospho peptide, demonstrating antibody specificity, and panel f) demonstrates no competition with the non-phosphorylated peptide. Panel g) represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

1 Reference

Western Blot (1)

Scientific reports

Amplification of CDK4 and MDM2: a detailed study of a high-risk neuroblastoma subgroup.

"702097 was used in Western Blotting to present detailed biological data of an aggressive neuroblastoma subgroup hallmarked by 12q amplification and atypical clinical presentation for which our in vitro studies indicate that CDK4 and /or MDM2 inhibition also could be beneficial."

Authors: Martinez-Monleon A,Kryh Öberg H,Gaarder J,Berbegall AP,Javanmardi N,Djos A,Ussowicz M,Taschner-Mandl S,Ambros IM,Øra I,Sandstedt B,Beiske K,Ladenstein R,Noguera R,Ambros PF,Gordon Murkes L,Ljungman G,Kogner P, Fransson S,Martinsson T

Year
2022

Species
Human