

Green Renilla luciferase Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Renilla
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Purified full length recombinant Green Renilla luciferase expressed in E. coli.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS with 30% glycerol, 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20°C
RRID	AB_2539911

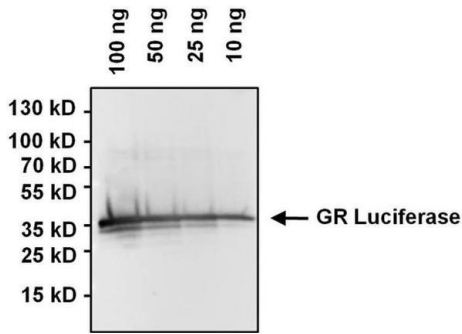
Applications	Tested Dilution	Publications
Western Blot (WB)	1:2,000-1:4,000	-
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	1:500-1:1,000	-
Immunoprecipitation (IP)	5 µg	-
Neutralization (Neu)	Assay-dependent	-

Product Specific Information

Western blot analysis of PA1-180 detects a prominent ~36 kDa protein in Green Renilla luciferase expressing cells. Additional unspecific bands are also detected in control cells with increased exposure time. This antibody has also been successfully tested in IP, Immunofluorescence, and neutralization assays.

Green Renilla luciferase activity can be measured using the Thermo Fisher Firefly Luciferase Flash or Glow Assay Kits or Luciferase Dual Assay Kits.

Product Images For Green Renilla luciferase Polyclonal Antibody

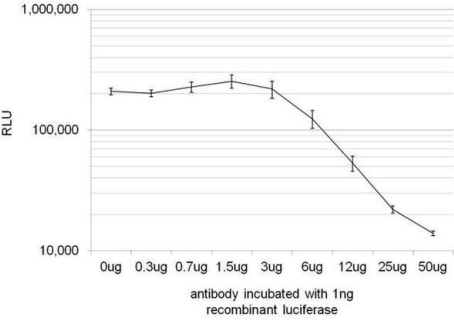


Green Renilla luciferase Antibody (PA1-180) in WB

Western blot analysis of Green Renilla luciferase (from the Sea pansy *Renilla reniformis*) was performed by loading various amounts of full length recombinant Green Renilla (GR) luciferase, and 10 μ L of PageRuler Plus Prestained Protein Ladder (Product # 26619) onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% BSA/TBST for 1 hour. The membrane was probed with a GR luciferase polyclonal antibody (Product # PA1-180) at a dilution of 1:4000 overnight at 4°C on a rocking platform, washed in TBS-0.1% Tween-20, and probed with a pre-diluted goat anti-rabbit HRP secondary antibody (Product # 32460) at a dilution of 1:500 (20 ng/mL) for one hour. Membranes were washed and chemiluminescent detection was performed using SuperSignal West Pico (Product # 34080).

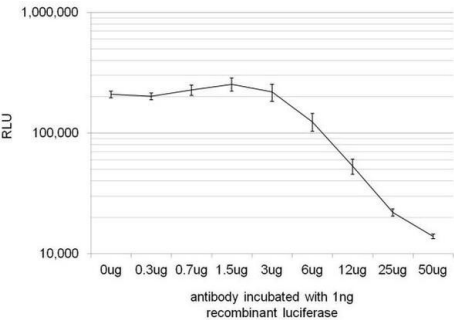
Green Renilla luciferase Antibody (PA1-180)

Neutralization of Green-Renilla-luciferase by Green Renilla luciferase Polyclonal Antibody (Product # PA1-180) showing the decrease in signal with increasing concentrations of antibody. Neutralization antibody testing demonstrates the specificity of an antibody through a correlation between antibody binding and the activity of the target. {Neu}



Green Renilla luciferase Antibody (PA1-180) in Neu

Neutralizing effect of Green Renilla (GR) luciferase antibody on the activity of purified recombinant GR luciferase (from the Sea pansy *Renilla reniformis*) using the Pierce Renilla Luciferase Glow Assay Kit (Product # 16166). 1 ng of recombinant enzyme were incubated with the indicated amounts of a GR luciferase polyclonal antibody (Product # PA1-180) for at least 30 min. Enzyme activity (RLU) was detected using a Thermo Scientific Varioskan Flash Reader and Pierce Renilla Luciferase Glow Assay Kit (Product # 16167). Average RLU values from 10 timepoints per concentration of 4 replicates +/- standard deviation are shown.



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1 Reference

Immunohistochemistry (1)

Nature communications	Year
<p>Translational derepression of Elavl4 isoforms at their alternative 5' UTRs determines neuronal development.</p> <p>"Published figure using Green Renilla luciferase polyclonal antibody (Product # PA1-180) in Immunohistochemistry"</p> <p>Authors: Popovitchenko T, Park Y, Page NF, Luo X, Krsnik Z, Liu Y, Salamon I, Stephenson JD, Kraushar ML, Volk NL, Patel SM, Wijeratne HRS, Li D, Suthar KS, Wach A, Sun M, Arnold SJ, Akamatsu W, Okano H, Paillard L, Zhang H, Buyske S, Kostovic I, De Rubeis S, Hart RP, Rasin MR</p>	2020

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