

ESRRG Recombinant Rabbit Monoclonal Antibody (4H7L11)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	4H7L11
Conjugate	Unconjugated
Immunogen	Peptides corresponding to human ESRRG (aa245-263, 318-333)
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_2663044

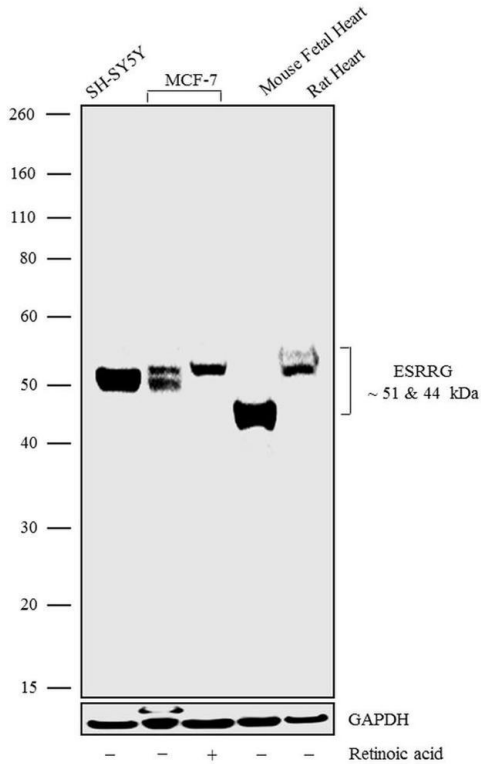
Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	-
Immunocytochemistry (ICC/IF)	1:200	-

Product Specific Information

This antibody is predicted to react with Monkey, Sheep, Mouse

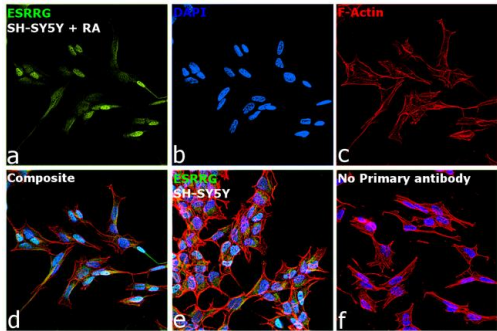
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages 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 ESRRG Recombinant Rabbit Monoclonal Antibody (4H7L11)



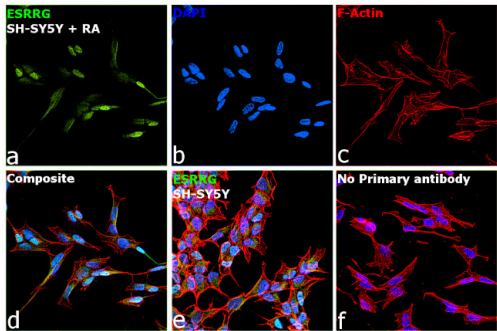
ESRRG Antibody (702406) in WB

Western blot analysis was performed on Nuclear extracts (30 µg lysate) of SH-SY5Y (Lane 1), MCF 7 (Lane 2), MCF 7 (Treated with 20uM Retinoic acid in 1% FBS containing DMEM for 5 days) (Lane 3) and tissue extracts of Mouse Fetal Heart (Lane 4) and Rat Heart (Lane 5). The blots were probed with Anti-ESRRG Recombinant Rabbit Monoclonal Antibody (Product # 702406 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). Two isoforms of 51 kDa and 44 kDa band corresponding to ESRRG was observed across the cell lines and tissue tested. 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 iBlot® Dry Blotting System (Product # IB21001). 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).



ESRRG Antibody (702406)

Detection of altered subcellular localization of the target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis using ESRRG Recombinant Rabbit Monoclonal Antibody (4H7L11) (Product # 702406), shows increased expression of ESRRG in SHSY5Y cell line upon Retinoic acid treatment. {TM}



ESRRG Antibody (702406) in ICC/IF

Immunofluorescence analysis of Estrogen-related receptor gamma was performed using 70% confluent log phase SH-SY5Y cells treated with Retinoic acid (20 µM, 5 days). The cells were fixed with 4% paraformaldehyde for 5 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 2% BSA for overnight at room temperature. The cells were labeled with ESRRG Recombinant Rabbit Monoclonal Antibody (4H7L11) (Product # 702406) at 1:200 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing Nuclear localization. Panel e represents untreated cells with reduced signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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