

# FOXG1 Recombinant Rabbit Monoclonal Antibody (2H7L2)

## Product Details

Size	100 µg
Species Reactivity	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Recombinant Monoclonal
Type	Antibody
Clone	2H7L2
Conjugate	Unconjugated
Immunogen	Peptides corresponding to human FOXG1 (aa 473-487, 2-15)
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_2663604

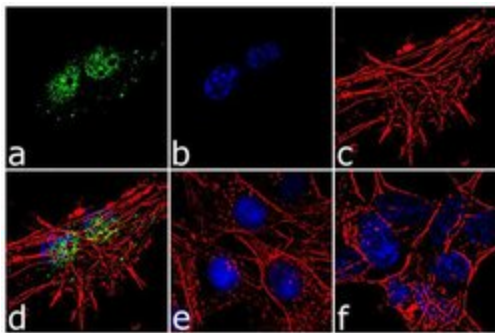
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	2 µg/mL	-
Immunofluorescence (IF)	2 µg/mL	-
Western Blot (WB)	1-2 µg/mL	-

## Product Specific Information

This antibody is predicted to react with Monkey, Rat, 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.

## Advanced Verification Data



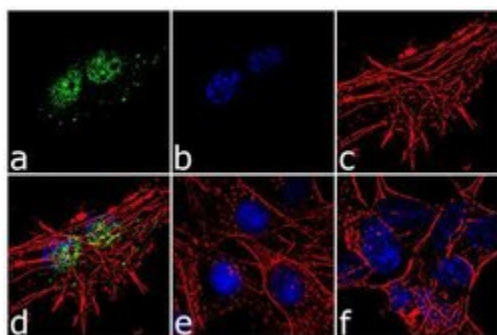
### FOXG1 Antibody (702554)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Relative expression of FOXG1 was observed in U 87-MG cells and not in SH-SY5Y cells in immunofluorescence using FOXG1 Antibody (2H7L2), Recombinant Rabbit Monoclonal Antibody (Product # 702554). Relative expression validation info.

## Product Images For FOXG1 Recombinant Rabbit Monoclonal Antibody (2H7L2)

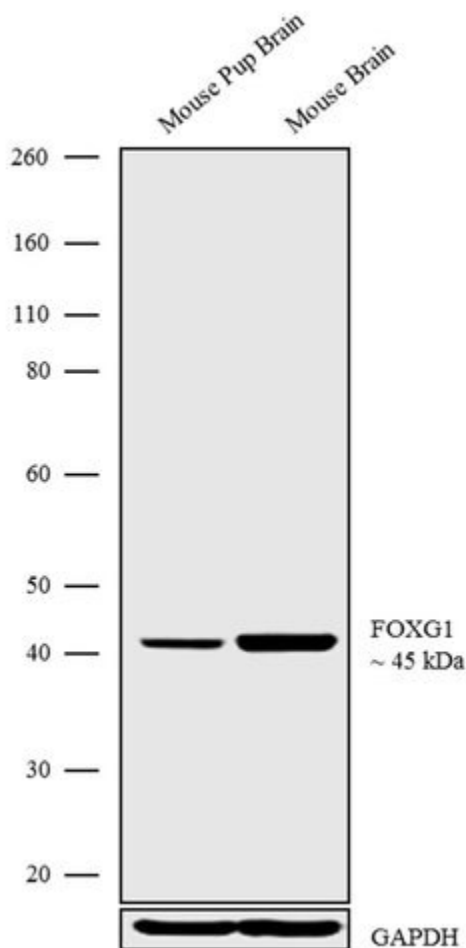
### FOXG1 Antibody (702554) in ICC

For immunofluorescence analysis, U-87 MG cells were fixed and permeabilized for detection of endogenous FOXG1 using Anti-FOXG1 Recombinant Rabbit Monoclonal Antibody (Product # 702554, 2 µg/mL) and labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of FOXG1 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 FOXG1 in U-87 mg glioblastoma cells which is positive for FOXG1 (Seoane et al., 2004). Panel e) represents control cells with no primary antibody to assess background panel f) shows no signal in SH-SY5Y cells which is negative for FOXG1. The images were captured at 60X magnification.



### FOXG1 Antibody (702554) in WB

Western blot analysis was performed on Tissue extracts (30 µg lysate) of Mouse pup Brain (Lane 1) and Mouse Brain (Lane 2). The blots were probed with Anti-FOXG1 Recombinant Rabbit Monoclonal Antibody (Product # 702554, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 45 kDa band corresponding to FOXG1 was observed across the tissues 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).



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