

# 53BP1 Recombinant Polyclonal Antibody (7HCLC)

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Clone	7HCLC
Conjugate	Unconjugated
Immunogen	Protein corresponding to human 53BP1 [aa241-aa440]
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_2848248

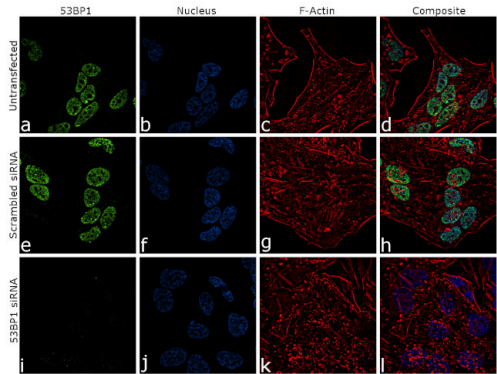
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	1:100	-

## Product Specific Information

This antibody is predicted to react with Mouse, Rat, Bovine.

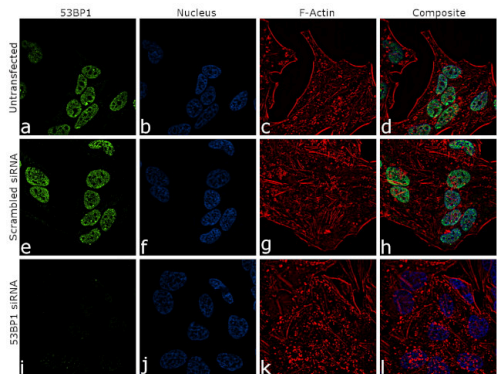
Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For 53BP1 Recombinant Polyclonal Antibody (7HCLC)



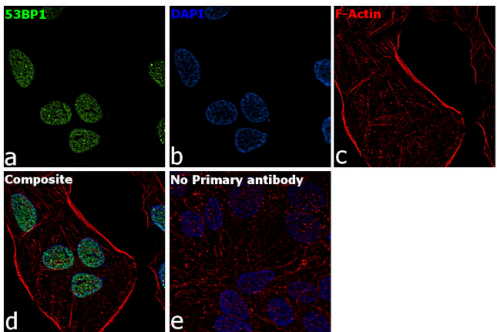
53BP1 Antibody (712578)

Antibody specificity was demonstrated by siRNA-mediated knockdown of the target protein. HeLa cells were transfected with 53BP1 specific siRNA and decrease in signal intensity was observed in immunofluorescence application using Anti-53BP1 Recombinant Rabbit Polyclonal Antibody (Product # 712578). {KD}



53BP1 Antibody (712578) in ICC/IF

Knockdown of 53BP1 was achieved by transfecting HeLa cells with specific siRNA (Silencer® select Product # s14314, s14315). Immunofluorescence analysis was performed on HeLa cells (untransfected, panel a-d), transfected with 53BP1 specific siRNA (panel i-l) or non-specific scrambled siRNA (panels e-h). Cells were fixed, permeabilized, and labeled with Anti-53BP1 Recombinant Rabbit Polynoclonal Antibody (Product # 712578, 1:100 dilution), followed by Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Nuclei (blue) were stained using ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962), and Rhodamine Phalloidin (Product # R415, 1:300) was used for cytoskeletal F-actin (red) staining. Significant reduction of the signal was observed upon siRNA mediated knockdown (panel i-l) confirming the specificity of the antibody to (green). The images were captured at 60X magnification.



53BP1 Antibody (712578) in ICC/IF

For immunofluorescence analysis, HeLa cells were fixed and permeabilized for detection of endogenous 53BP1 using Anti-53BP1 Recombinant Rabbit Polyclonal Antibody (Product # 712578, 1:100 dilution) 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 53BP1 protein (green), Panel b) is stained for nuclei (blue) using ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). 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 53BP1. Panel e) represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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