

# XBP1 Recombinant Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Class	Recombinant Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Protein corresponding to human XBP1 (aa1-aa185)
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_2716901

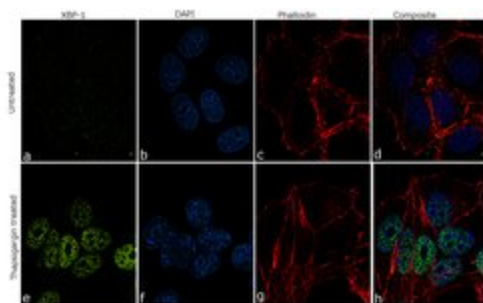
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	5 µg/mL	-

## Product Specific Information

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

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.

## Advanced Verification Data

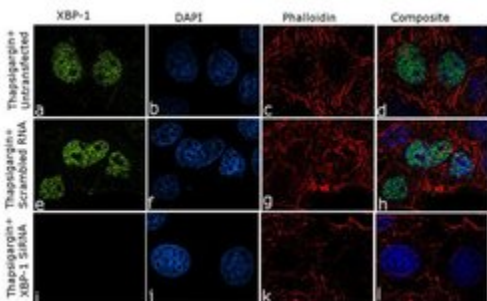


### XBP1 Antibody (711490)

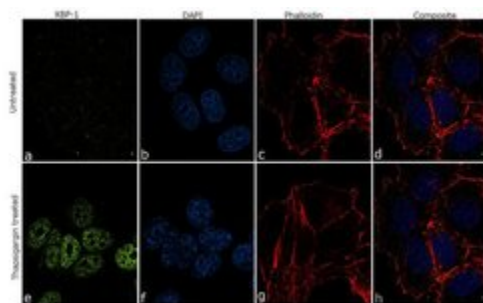
Detection of subcellular localization of the target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of XBP-1 using Anti-XBP-1 Recombinant Rabbit Polyclonal Antibody (Product # 711490) detects XBP1 in nucleus of MCF7 cells treated with Thapsigargin. Cell treatment validation info.

### XBP1 Antibody (711490)

Knockdown of XBP-1 was achieved by transfecting Thapsigargin (300 nM 3h) treated MCF7 cells with XBP-1 specific siRNA (Silencer® select Cat # s14914, s14915). Immunofluorescence analysis was performed on Thapsigargin treated MCF7 cells (untransfected, panel a-d), transfected with XBP-1 specific siRNA (panel i-l) or non-specific scrambled siRNA (panels e-h). Cells were fixed, permeabilized, and labelled with Anti-XBP1 Recombinant Rabbit Polyclonal Antibody (Product # 711490, 5 µg/mL), followed by Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Nuclei (blue) were stained using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938), and Rhodamine Phalloidin (Product # R415, 1:300) was used for cytoskeletal F-actin (red) staining. Loss of signal was observed upon siRNA mediated knockdown (panel i-l) confirming specificity of the antibody to XBP-1 (green). The images were captured at 60X magnification. Knockdown validation info.



## Product Images For XBP1 Recombinant Polyclonal Antibody



### XBP1 Antibody (711490) in ICC/IF

For immunofluorescence analysis, MCF7 cells were fixed and permeabilized for detection of endogenous XBP1 using Anti-XBP1 Recombinant Rabbit Polyclonal Antibody (Product # 711490, 5 µg/mL) and labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Nuclei (blue) is stained using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938) and cytoskeletal F-actin (red) staining using Rhodamine Phalloidin (Product # R415, 1:300). Panel a-d) shows untreated cells that were stained for detection and localization of XBP1 protein (green) with no signal. Panel e-h) clearly demonstrate nuclear localisation of XBP1 in cells treated with Thapsigargin (300 nM 3h). The images were captured at 60X magnification.

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