

XBP1 Recombinant Superclonal Antibody

Product Details

Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Superclonal
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

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Product Specific Information

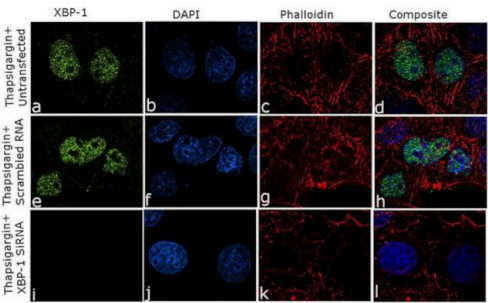
This antibody is predicted to react with Monkey, Pig, Bovine, Mouse

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.

Product Images For XBP1 Recombinant Superclonal Antibody

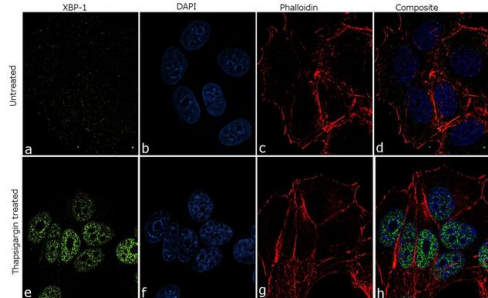
XBP1 Antibody (711490)

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 (Heavy Chain) 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. {KD}



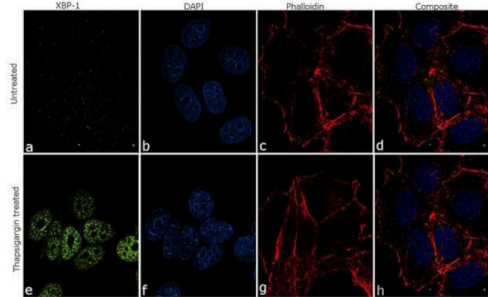
XBP1 Antibody (711490)

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. {TM}



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 (Heavy Chain) 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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