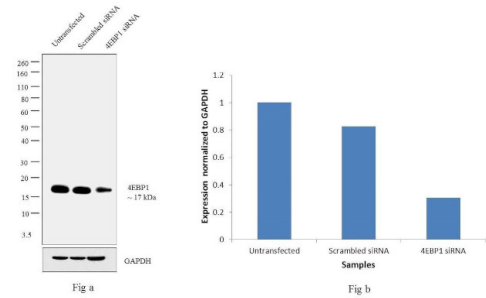


4EBP1 Monoclonal Antibody (554R16)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	554R16
Conjugate	Unconjugated
Immunogen	Recombinant human 4E-BP1 protein expressed in E. coli.
Form	Liquid
Concentration	0.5 mg/mL
Purification	purified
Storage buffer	PBS, pH 7.2, with 1% BSA
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2536336

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	4 Publications
Immunocytochemistry (ICC/IF)	1:250	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Images For 4EBP1 Monoclonal Antibody (554R16)

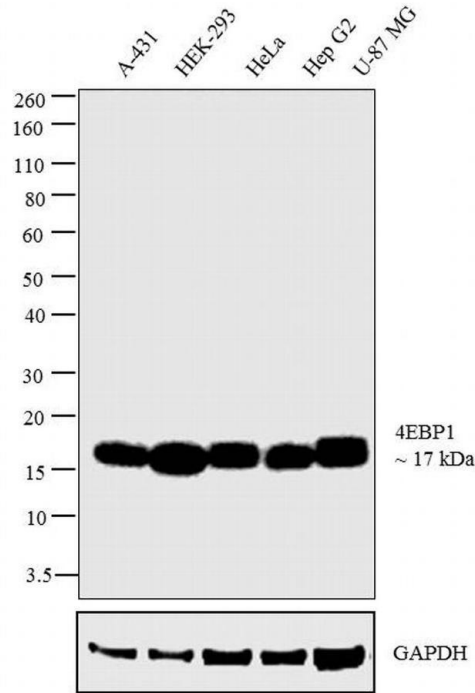


4EBP1 Antibody (AHO1382)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. A-431 cells were transfected with 4EBP1 siRNA and decrease in signal was observed in Western Blot using Anti-4EBP1 Monoclonal Antibody (Product # AHO1382). {KD}

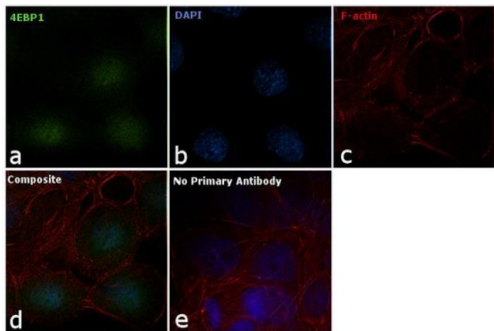
4EBP1 Antibody (AHO1382) in WB

Western blot analysis was performed on whole cell extracts of A-431 (Lane 1), HEK-293 (Lane 2), HeLa (Lane 3), Hep G2 (Lane 4) and U-87 MG (Lane 5). The blot was probed with Anti-4EBP1 antibody (Product # AHO1382, 1:500 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 17 kDa band corresponding to 4EBP1 was observed across the cell lines tested.



4EBP1 Antibody (AHO1382) in ICC/IF

Immunofluorescence analysis of 4EBP1 was performed using 70% confluent log phase A-431 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with 4EBP1 Monoclonal Antibody (Product # AHO1382) at 1:250 dilution in 0.1% BSA and incubated overnight at 4 degree and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing nuclear and cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Western Blot (4)

Cell death and differentiation Inhibition of the autophagic protein ULK1 attenuates axonal degeneration in vitro and in vivo, enhances translation, and modulates splicing. "AHO1382 was used in Western Blotting to study the effect of ULK1 inhibition in different models of lesion-induced axonal degeneration in vitro and in vivo." Authors: Vahsen BF,Ribas VT,Sundermeyer J,Boecker A,Dambeck V,Lenz C,Shomroni O,Caldi Gomes L,Tatenhorst L, Barski E,Roser AE,Michel U,Urlaub H,Salinas G,Bähr M,Koch JC,Lingor P	Year 2020 Species Rat Dilution 1:200
Journal of cellular and molecular medicine Polycystin-1 affects cancer cell behaviour and interacts with mTOR and Jak signalling pathways in cancer cell lines. "AHO1382 was used in Western Blotting to study the role of polycystin-1 in cancer biology." Authors: Papavassiliou KA,Zoi I,Gargalionis AN,Koutsilieris M	Year 2019 Species Human Dilution 1:250

[View more WB references on thermofisher.com](#)

Immunocytochemistry (1)

The Journal of biological chemistry Butyrate-rich colonic microenvironment is a relevant selection factor for metabolically adapted tumor cells. Authors: Serpa J,Caiado F,Carvalho T,Torre C,Gonçalves LG,Casalou C,Lamosa P,Rodrigues M,Zhu Z,Lam EW,Dias S	Year 2010 Species Human
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Miscellaneous PubMed (1)

Autophagy Induction of genuine autophagy by cationic lipids in mammalian cells. "AHO1382 was used in western blot to report that cationic lipids induced autophagy in mammalian cells" Authors: Man N,Chen Y,Zheng F,Zhou W,Wen LP	Year 2010 Species Human
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More applications with references on thermofisher.com

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