

4EBP1 Monoclonal Antibody (554R16)

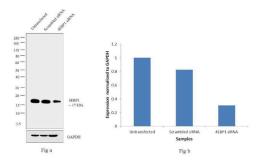
Product Details

Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Туре	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	5 Publications
Immunocytochemistry (ICC/IF)	1:250	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

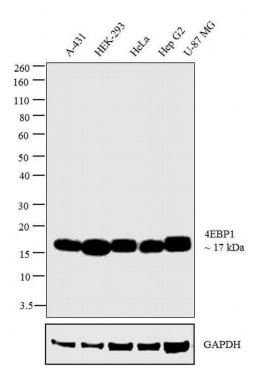
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Product Images For 4EBP1 Monoclonal Antibody (554R16)



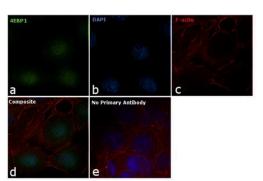
4EBP1 Antibody (AHO1382)

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 # 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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7 References

Western Blot (5)

Cell reports

Pathological mitophagy disrupts mitochondrial homeostasis in Leber's hereditary optic neuropathy.

"AHO1382 was used in Western Blotting to show that a sustained pathological autophagy and compartment-specific mitophagy activity affects Leber's hereditary optic neuropathy patient-derived cells and cybrids, as well as induced pluripotent-stem-cell-derived neurons."

Authors: Danese A,Patergnani S,Maresca A,Peron C,Raimondi A,Caporali L,Marchi S,La Morgia C,Del Dotto V,Zanna C,Iannielli A,Segnali A,Di Meo I,Cavaliere A,Lebiedzinska-Arciszewska M,Wieckowski MR,Martinuzzi A,Moraes-Filho MN,Salomao SR,Berezovsky A,Belfort R,Buser C,Ross-Cisneros FN,Sadun AA,Tacchetti C,Broccoli V,Giorgi C,Tiranti V,Carelli V,Pinton P

Cell death and differentiation Inhibition of the autophagic protein ULK1 attenuates axonal	Year 2020
degeneration in vitro and in vivo, enhances translation, and modulates splicing.	Species Rat
"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."	Dilution 1:200
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	

View more WB references on thermofisher.cn

Immunocytochemistry (1)

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

Miscellaneous PubMed (1)

Autophagy	Year 2010	
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"	Species	
Authors: Man N,Chen Y,Zheng F,Zhou W,Wen LP	Human	

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SCIENTIFIC

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Year 2022

Species Human