

ATF4 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant protein fragment corresponding to a region within amino acids 146 and 333 of Human ATF4
Form	Liquid
Concentration	1.29 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2545052

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-
ChIP assay (ChIP)	Assay-dependent	-

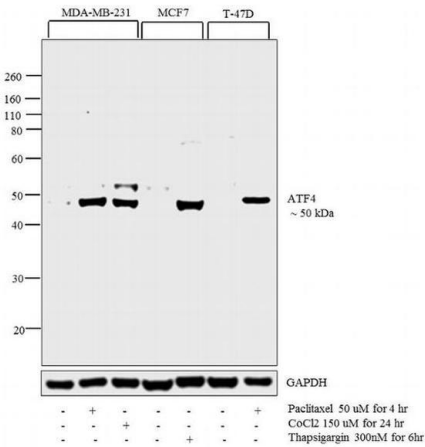
Product Specific Information

Recommended positive controls: HeLa (4 µg/mL tunicamycin treatment for 16 hr).

Predicted reactivity: Mouse (83%), Rat (85%), Pig (89%), Sheep (86%), Rhesus Monkey (97%), Chimpanzee (99%), Bovine (90%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For ATF4 Polyclonal Antibody

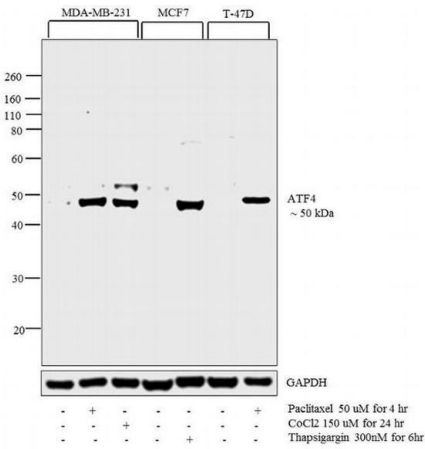


ATF4 Antibody (PA5-27576)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Western blot analysis of ATF4 using ATF4 Polyclonal Antibody (Product # PA5-27576) shows increased expression of proteins in MDA-MB-231, MCF7 and T-47D cell lines upon Paclitaxel, CoCl2 and Thapsigargin treatment. {TM}

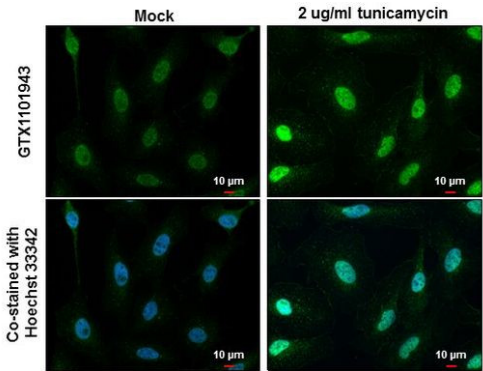
ATF4 Antibody (PA5-27576) in WB

Western blot analysis was performed on modified whole cell extracts (1%SDS) (30 µg lysate) of MDA-MB-231 (Lane 1), MDA-MB-231 treated with Paclitaxel (50 uM, 4 hours) (Lane 2), MDA-MB-231 treated with CoCl2 (150 µM, 24 hours) (Lane 3), MCF7 (Lane 4), MCF7 treated with Thapsigargin (300 nM, 6 hours) (Lane 5), T-47D (Lane 6) and T-47D treated with Paclitaxel (50 uM, 4 hours) (Lane 7). The blot was probed with Anti-ATF4 Polyclonal Antibody (Product # PA5-27576, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 47 kDa band corresponding to ATF4 was observed in MDA-MB-231, MCF7 and T47D upon cell treatment.



ATF4 Antibody (PA5-27576) in ICC/IF

Immunocytochemistry-Immunofluorescence analysis of ATF4 in HeLa cells mock (left) and HeLa cells treated with 2 µg/mL Tunicamycin for 8hrs (right). Cells were fixed in 4% paraformaldehyde at RT for 15 min and stained using ATF4 Polyclonal Antibody (Product # PA5-27576) (Green) at a dilution of 1:500. Blue: Hoechst 33342 staining. Scale bar = 10 µm.



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