c-Fos Polyclonal Antibody

Product Details	
Size	200 µg
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues S(4) G F N A D Y E A S S S R C(17) of human cFos.
Form	Lyophilized
Concentration	1 mg/mL
Purification	Ammonium sulfate precipitation
Storage buffer	PBS
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2106777

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	1:500	-

Product Specific Information

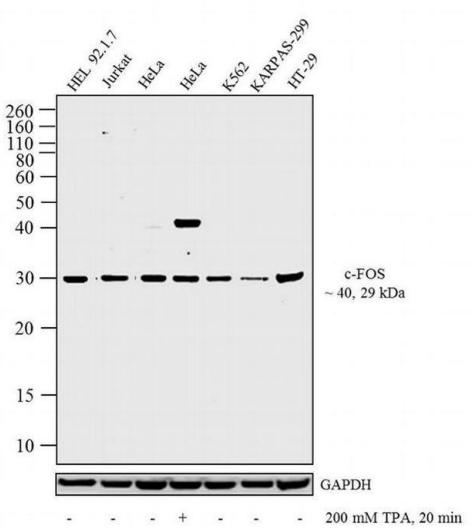
PA1-830 detects cFos from mouse and human cells.

PA1-830 has been successfully used in Western blot and immunofluorescence procedures. By Western blot, this antibody detects an ~60 kDa protein representing cFos in NIH 3T3 serum stimulated cells.

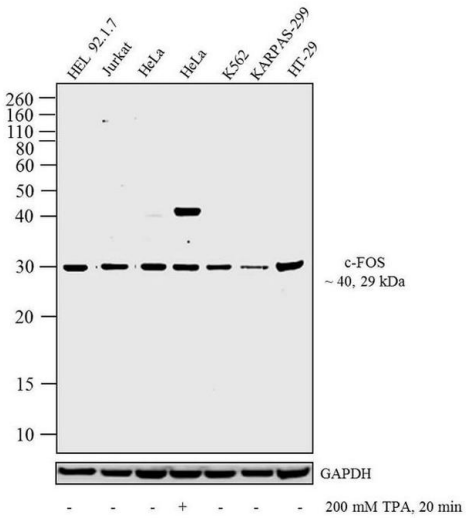
The PA1-830 immunogen is a synthetic peptide corresponding to residues S(4) G F N A D Y E A S S S R C(17) of human cFos. This sequence is completely conserved in mouse cFos.

Reconstitute with 200 µL of PBS (1 mg/mL).

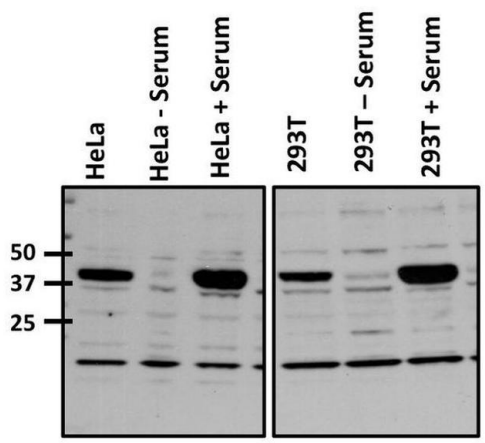
Product Images For c-Fos Polyclonal Antibody



c-Fos Antibody (PA1-830) in WB
Western blot analysis was performed on whole cell extracts (30 µg lysate) of HEL 92.1.7 (Lane 1), Jurkat (Lane 2), HeLa (Lane 3), HeLa treated for 20 minutes with 200 mM of TPA (Lane 4), K562 (lane5), KARPAS-299 (Lane 6) and HT-29 (lane 7). The blots were probed with Anti-c-Fos Rabbit Polyclonal Antibody (Product # PA1-830, 1-3 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 29 kDa band corresponding to c-Fos was observed across cell lines tested, A 40 kDa isoform was observed in TPA treated lysate. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a transferred onto a nitrocellulose membrane with Pierce™ Power Blotter System (22834). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



c-Fos Antibody (PA1-830)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot of c-Fos using c-Fos Polyclonal Antibody (Product # PA1-830), shows expression of 40KDa isoform of c-Fos in HeLa cell line upon TPA treatment. {TM}



c-Fos Antibody (PA1-830) in WB
Western blot analysis of c-Fos (Product # PA1-830) was performed by loading 50 µg of Serum (20% Serum, 2hours following 0.25% serum starvation, 36hours) treated HeLa and 293Twhole cell lysate, respectively, onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% Milk/TBST for at least 1 hour. Membranes were probed with a rabbit polyclonal antibody recognizing c-Fos at a dilution of 1:500 overnight at 4°C on a rocking platform. Membranes were washed in TBS-0.1%Tween 20 and probed with a goat anti-rabbit-HRP secondary antibody (Product # 31460) at a dilution of 1:20,000 for at least one hour. Membranes were washed and chemiluminescent detection performed using Pierce Super Signal West Pico (Product # 34077).

View more figures on thermofisher.com

2 References

Western Blot (1)

Proceedings of the National Academy of Sciences of the United States of America

Year
2014

25-Hydroxycholesterol acts as an amplifier of inflammatory signaling.

"PA1-830 was used in ChIP assay and western blot to investigate the role of oxysterol 25-hydroxycholesterol during infection with influenza"

Authors: Gold ES,Diercks AH,Podolsky I,Podyminogin RL,Askovich PS,Treuting PM,Aderem A

Immunohistochemistry (1)

Neural regeneration research

Year
2022

Species
Mouse

Dilution
1:1000

Optogenetics stimulates nerve reorganization in the contralesional anterolateral primary motor cortex in a mouse model of ischemic stroke.

"PA1-830 was used in Immunohistochemistry-immunofluorescence to suggest that optogenetic cALM stimulation promotes neural reorganization in the primary motor cortex of the ischemic hemisphere, and that optogenetic cALM inhibition and activation have different effects on neural plasticity."

Authors: Gao BY,Cao YX,Fu PF,Xing Y,Liang D,Jiang S,Xie YX,Li M