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PRODUCT DATASHEET

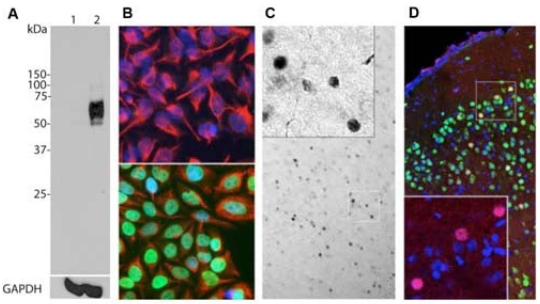
Anti-Cellular oncogene fos (c-Fos) Antibody

Product Details

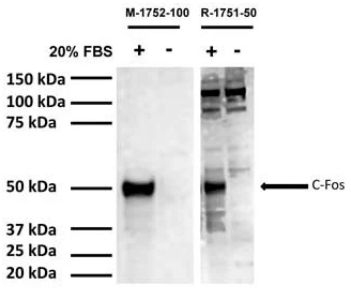
Available Variants	100 µg (SKU:M-1752-100)
Conjugate	Unconjugated
Isotype	IgG1
Clone	2H2
Host Species	Mouse
Format	Affinity-purified
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Production Notes	Protein G purified
Applications	ICC, IHC
Dilution Ranges	WB: 0.5-1 µg/mL IHC: 1-2 µg/mL ICC: 1-2 µg/mL
Species Reactivity	Bovine, Chicken, Horse, Human, Mouse, Pig, Rat
Immunogen	Full length, E.coli-derived recombinant human c-FOS protein.
Specificity	Human. Horse, cow, pig, chicken, rat, mouse.
Molecular Weight	see application details
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any insoluble material. Store lyophilized, unopened vial at 2-8°C or lower. After reconstitution, prepare aliquots and store at -20°C for a higher stability. Avoid freeze-thaw cycles.
UniProt ID	P01100

Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.

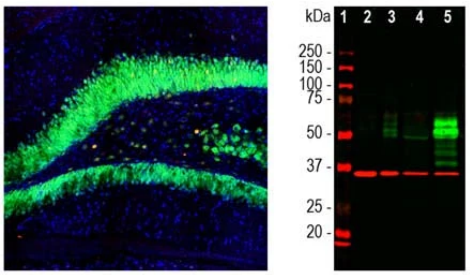
Product Images



A: Western blot analysis of c-Fos expression in HeLa cells using M-1752-100. HeLa cells were serum-starved for 36 hours (Lane 1). Serum-starved HeLa cells were stimulated with 20% FBS for 2 hours (Lane 2). M-1752-100 recognizes bands in the range of 50-65 kDa, which represent multiple forms of c-Fos. A loading control was performed by stripping and re-probing the membrane with a monoclonal antibody against GAPDH, M-1376-250.
B: Immunofluorescence staining of HeLa cells with M-1752-100. c-Fos staining (green) only localizes in the nuclei of 20% FBS stimulated cells (bottom panel), but not in un-stimulated cells (top panel). Cells were counter-stained with Chicken polyclonal antibody against vimentin, C-1409-50 (red) and DAPI (blue).
C: Immunohistochemistry using M-1752-100 on 4% PFA transcardial-perfused mouse brain sections (45 uM thickness). c-FOS immunoreactive cells (dark colour, localized in cell nucleus) were visualized using a standard HRP-DAB (horseradish peroxidase-3,3'-diaminobenzidine) staining technique.
D: Immunohistochemistry using M-1752-100 (red) and Rabbit polyclonal anti-NeuN/Fox3 (R-3770-100, green) on mouse cortical sections. Neurons positive for c-Fos and Fox3/NeuN appear yellow. The insert shows an enlarged image of staining with M-1752-100. Nuclei were labeled with DAPI (blue).



Western blot analysis of c-Fos expression in rat C6 cells (40 ug lysate loading per lane). C6 cells were serum-starved for 20 hours and then stimulated with 20% FBS for 2 hrs (+). Control cells were left in serum-depleted culture medium (-). M-1752-100 and R-1751-50 detect a strong band at 50 kDa in stimulated cells but not in control cells, representing increased c-FOS expression.
Western Blotting Method: SDS-PAGE: denaturing and reducing, 4-12% Bis-Tris gel; Transfer: Tris-Glycine (Towbin's) buffer with 20% methanol; Membrane: PVDF (0.45 µm); Blocking: 5% skim milk in TBST, 1 hour at RT; Primary antibodies: R-1751-50 (1 µg/mL), M-1752-100 (1 µg/mL), incubation overnight at 4°C; Secondary antibodies: anti-rabbit-HRP (1/6000) or anti-mouse-HRP (1/3000), 1 hour at RT; Detection: Chemiluminiscence.



Left: Rat hippocampus stained for c-FOS (red) by **Immunohistochemistry**. Section was co-stained with rabbit antibody to FOX3/NeuN (R-3770-100, green). Blue: DAPI nuclear stain. The hippocampal neurons stain green for FOX3/NeuN and a few also are expressing c-FOS, and thus appear orange. These cells were spontaneously active at the time the animal was sacrificed. **Right: Western blot** analysis of c-FOS expression (green) in cell lysates. Mouse antibody to c-FOS was used at 1:1,000 dilution. GAPDH (red, lanes 2-5) was used as loading control (rabbit antibody to GAPDH, R-1701-100, 1:20,000). [1] protein standard, [2] HeLa cells in serum free media, [3] HeLa cells stimulated with 20% FBS for 2 hours after 36 hours serum starvation, [4] rat cortical neurons, [5] rat cortical neurons treated with membrane depolarization buffer for 5 hours. Multiple bands at 50-65 kDa in stimulated or treated cell lysates correspond to different forms of the c-Fos protein. The single band at 37 kDa (red) represents GAPDH protein.