

# Anti-c-Fos



## Polyclonal Antibody

**Cat. # ABE457**

**Lot # 2475948**

FOR RESEARCH USE ONLY  
NOT FOR USE IN DIAGNOSTIC PROCEDURES  
NOT FOR HUMAN OR ANIMAL CONSUMPTION

**pack size: 100 µg**

Store at 2-8°C

## Certificate of Analysis

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Applications	Species Cross-Reactivity	Antibody Isotype	Epitope/Region	Host Species	Molecular Weight	Accession #
WB, IH	H, R, (M, RMk, B, Sh, Chp)	N/A	N-terminus	Rb	~60 and ~56 kDa	NP_005243

### Background

c-Fos is a member of a family of immediate early gene (IEG) transcription factors (other members include Jun and Egr-1) also identified as proto-oncogenes. The basal expression of c-Fos and other IEGs is typically low but increases relatively quickly and often dramatically (15-30 min for mRNA; 30-60 min for protein) in response to changes in cellular activity typically caused by external stimuli, such as stress or neuronal activation. Thus, these IEGs are being used to indicate specific activity driven cellular activation including the identification of neurons activated by various growth factors, neuroactive drugs, and correlated changes in behavioral or physiological states.

### Presentation

Purified rabbit polyclonal in buffer containing 0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl with 0.05% sodium azide.

### Concentration

1 mg/mL

### Specificity

This antibody recognizes the N-terminus of c-Fos.

### Species Cross-reactivity

Demonstrated to react with Human and Rat. Predicted to react with Mouse, Rhesus Macaque, Bovine, Sheep, Porcine, and Chimpanzee based on 100% sequence homology.

### Immunogen

KLH-conjugated linear peptide corresponding to the N-terminus of human c-Fos.

### Molecular Weight

~60/56 kDa observed. This protein has multiple isoforms produced by alternative

splicing ranging between 53 and 68 kDa. (Jurado, J., et al. (2007). *BMC Molecular Biology*. 8:83-96.)

### Method of Purification

Affinity purified

### Storage and Handling

Stable for 1 year at 2-8°C from date of receipt.

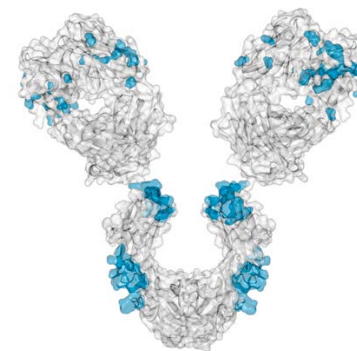
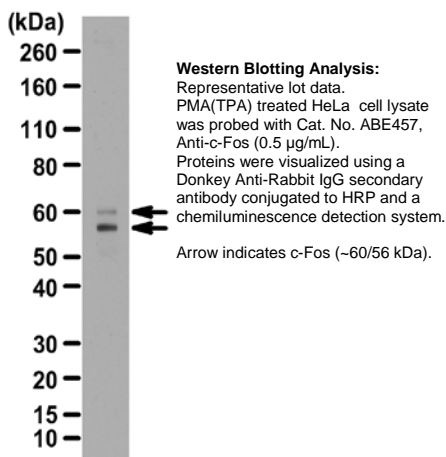
### Control

PMA(TPA) treated HeLa cell lysate

### Quality Control Testing

Evaluated by Western Blotting in PMA(TPA) treated HeLa cell lysate.

Western Blotting Analysis: 0.5 µg/mL of this antibody detected c-Fos in 10 µg of PMA(TPA) treated HeLa cell lysate.



### References

Background Reference(s):

1. Vanstraten, et al. (1983). *PNAS*. 80:3183-3188.
2. Minson, J., et al. (1994). *Brain Research*. 646: 44-52.
3. Jurado, J., et al. (2007). *BMC Molecular Biology*. 8:83-96.

### Additional Research Applications

Immunofluorescence Analysis: A representative lot detected c-Fos in rat pons and rat cerebellum tissues.

**APPLICATION LEGEND:** WB Western Blotting IP Immunoprecipitation IC Immunocytochemistry IF Immunofluorescence  
IH Immunohistochemistry (Tissue) IH(P) Immunohistochemistry (Paraffin) FC Flow Cytometry

**SPECIES LEGEND:** B Bovine Chp Chimpanzee H Human M Mouse R Rat Rb Rabbit RMk Rhesus Monkey Sh Sheep

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Rev.B/2014-01-13/ABE457CA/RB

## Additional Research Applications

**Immunohistochemistry Analysis:** A 1:1,000 dilution from a representative lot detected c-Fos in rat pons and rat cerebellum tissues.

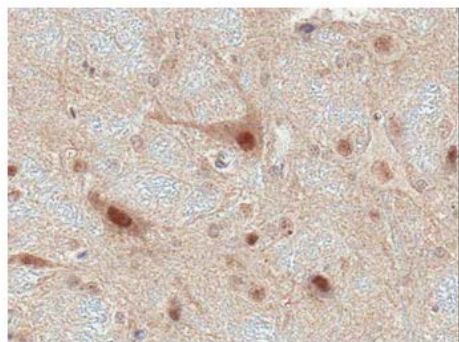


Fig. 1

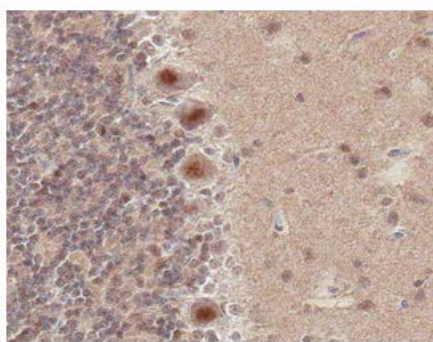


Fig. 2

### Immunohistochemistry Analysis:

Representative lot data.  
Formalin Fixed Paraffin Embedded (FFPE) rat pons (Fig. 1) and rat cerebellum (Fig. 2) tissues were prepared using heat-induced epitope retrieval (HIER). Immunostaining was performed using a 1:1,000 dilution of Cat. No. ABE457, Anti-c-Fos. Reactivity was detected using an Anti-Rabbit secondary antibody and HRP-DAB. Positive nuclear staining was observed in neurons of rat pons and in Purkinje cells of rat cerebellum tissues.

## PROTOCOL

### Western Blotting

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on cell lysate and transfer the proteins to a PVDF membrane. Wash the PVDF membrane twice with water.
2. Block the blotted PVDF membrane in freshly prepared 5% BSA or milk with 0.05% Tween®-20 surfactant for 1 hour at room temperature with constant agitation.
3. Incubate the PVDF with the recommended dilution of the primary antibody, diluted in freshly prepared 5% BSA or milk for 1 hour at room temperature or overnight with agitation at 2-8°C.
4. Wash the PVDF 3 times with TBST.
5. Incubate the PVDF in the secondary reagent of choice in 5% milk for 1 hour with agitation at room temperature.
6. Wash the PVDF 3-5 times with TBST.
7. Visualize with enhanced chemiluminescence (ECL) method of choice.

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### RELATED PRODUCTS (specific)

cat #	description
AP182P	Donkey anti-Rabbit IgG Antibody, HRP conjugate
70-645	c-Fos EZ-TFA Transcription Factor Assay Chemiluminescent Kit
CBL440	Anti-c-Fos
MABE329	Anti-c-Fos, clone 2G9C3
OP53-100UG	Anti-c-Fos (Ab-3) Mouse (CS93.1.18)
MAB1283	Anti-c-Fos Antibody, clone CF2

### RELATED PRODUCTS (non-specific)

cat #	description
WBAVDBASE	SNAP i.d.® Protein Detection System
WBAVDABTR	SNAP i.d. Antibody Collection Tray
WBAVDR0LL	SNAP i.d. Blot Roller
WBAVDBH03	SNAP i.d. Triple Well Blot Holder
WBAVDBH01	SNAP i.d. Single Well Blot Holder
WBAVDBH02	SNAP i.d. Double Well Blot Holder
IPVH00010	Immobilon®-P 26.5 cm x 3.75 m Roll PVDF 0.45 µm membrane
IPFL00010	Immobilon-FL 26.5 cm x 3.75 m Roll PVDF 0.45 µm membrane
IPVH07850	Immobilon-P 7 x 8.4 cm PVDF 0.45 mm membrane (sheet) 50/pk
ISEQ00010	Immobilon-P SQ 26.5 cm x 3.75 m 1 roll PVDF 0.2 µm membrane
ISEQ07850	Immobilon-P 7 x 8.4 cm PVDF 0.2 mm membrane (sheet) 50/pk
IPFL07810	Immobilon-FL 7 x 8.4 cm PVDF 0.45 mm membrane (sheet) 10/pk
WBKLS0100	Immobilon Western Chemilum HRP Substrate 100 mL
2060	Re-Blot™ Western Blot Recycling Kit
2500	Re-Blot Plus Western Blot Recycling Kit
B2080-175GM	Blot Quick Blocker™ Membrane Blocking Agent 175G
WBLUC0500	Luminata Classico Western HRP substrate, 500 mL
WBLUR0500	Luminata Crescendo Western HRP substrate, 500 mL

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