



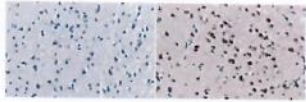
ABE457 Sigma-Aldrich

Anti-c-Fos Antibody

clone, from rabbit, purified by affinity chromatography

Synonym: **Proto-oncogene c-Fos, Cellular oncogene fos, G0/G1 switch regulatory protein 7**

eCl@ss 32160702 | NACRES NA.41




SKU-Pack Size	Availability	Pack Size	Price (CZK)	Quantity
ABE457	Estimated to ship on 21.04.21	100 µg	8,640.00	0

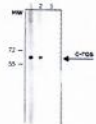
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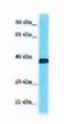
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Sigma-Aldrich
Anti-c-Fos (Ab-2) (4-17) Rabbit pAb
This Anti-c-Fos (Ab-2) (4-17) Rabbit pAb is validated f...



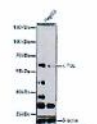
F7799
Sigma-Aldrich
Anti-c-Fos antibody produced in rabbit
IgG fraction of antiserum, buffered aqueous solution



SAB2100833
Sigma-Aldrich
Anti-FOS antibody produced in rabbit
affinity isolated antibody



ZRB457
Sigma-Aldrich
Anti-c-Fos Antibody, clone 1D10, ZooMab®...
recombinant, expressed in HEK 293 cells



SAB5700610
Sigma-Aldrich
Anti-c-Fos antibody produced in rabbit

Properties

Related Categories	Alphabetical Index , Antibodies , CE-CH , Primary Antibodies
clone	polyclonal
biological source	rabbit
application(s)	immunohistochemistry: suitable (paraffin) western blot: suitable
species reactivity	human, human, rat, rat
species reactivity (predicted by homology)	bovine (based on 100% sequence homology), chimpanzee (based on 100% sequence homology), porcine (based on 100% sequence homology), mouse (based on 100% sequence homology), rhesus macaque (based on 100% sequence homology), sheep (based on 100% sequence homology)
shipped in	wet ice
Quality Level	100
antibody product type	primary antibodies
purified by	affinity chromatography
NCBI accession no.	NP_005243
UniProt accession no.	P01100
Gene Information	human ... FOS(2353)

Description

General description

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.

Specificity

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

Immunogen

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

Application

Anti-c-Fos Antibody is a Rabbit Polyclonal Antibody for detection of c-Fos also known as Proto-oncogene c-Fos, Cellular oncogene fos & has been validated in WB & IHC.

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

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

Target description

~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.)

Quality

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

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

Analysis Note

Control

PMA(TPA) treated HeLa cell lysate

Other Notes

Concentration: Please refer to the Certificate of Analysis for the lot-specific concentration.

Safety Information

WGK Germany

WGK 1

Flash Point(F)

Not applicable

Flash Point(C)

Not applicable


Documents

[Bulk Quote-Order Product](#)

[Certificate of Analysis](#)

[Material Safety Data Sheet](#)

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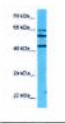
SAB4500995
Sigma-Aldrich
Anti-FOS antibody produced in rabbit affinity isolated antibody




SAB4500993
Sigma-Aldrich
Anti-FOS antibody produced in rabbit affinity isolated antibody



SAB5600263
Sigma-Aldrich
Anti-c-Fos antibody, Rabbit monoclonal recombinant, expressed in HEK 293 cells, clone RM374, purified immunoglobulin



SAB2100832
Sigma-Aldrich
Anti-FOS (ab1) antibody produced in rabbit affinity isolated antibody



SAB2502116
Sigma-Aldrich
Anti-FOS antibody produced in goat affinity isolated antibody, buffered aqueous solution

Protocols & Articles

Articles

Antibody Basics

Immunoglobulins (Igs) are produced by B lymphocytes and secreted into plasma. The Ig molecule in monomeric form is a glycoprotein with a molecular weight of approximately 150 kDa that is shaped more ...
Keywords: Affinity chromatography, Centrifugation, Chromatography, Digestions, Direct immunofluorescence, Gene expression, High performance liquid chromatography, Immunofluorescence, Ion Exchange, Microscopy, Precipitation, Purification, Rheumatology, Scanning electron microscopy

Protocols

[Western Blot Protocol](#) | [Immunoblotting Protocol](#)

Western Blotting refers to the electrophoretic transfer of proteins from sodium dodecyl sulfate polyacrylamide gels to sheets of PVDF or nitrocellulose membrane, followed by immunodetection of prote...
Keywords: AGE, Buffers, Cell disruption, Detection methods, Detergents, Dialysis, Electrophoresis, Enzyme activity, Gel electrophoresis, Immunoprecipitation, PAGE, Protein extraction, Purification, Sample preparations, Western blot

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[Antinociceptive and hypnotic activities of pregabalin in a neuropathic pain-like model in mice.](#)

Tian-Xiao Wang et. al

Pharmacology, biochemistry, and behavior, 135, 31-39 (2015-5-20)

To evaluate the antinociceptive and hypnotic effects of pregabalin, we established a neuropathic pain-like model in mice using partial sciatic nerve ligation (PSNL), and examined thermal hyperalgesia, mechanical allodynia, electroencephalogram, rota-...[Read More](#)

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[Nonparalytic botulinum molecules for the control of pain.](#)

Antonina S Mangione et. al

Pain, 157(5), 1045-1055 (2016-1-14)

Local injections of botulinum toxins have been reported to be useful not only for the treatment of peripheral neuropathic pain and migraine but also to cause long-lasting muscle paralysis, a potentially serious side effect. Recently, a botulinum A-ba...[Read More](#)

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[Suckling-induced Fos activation and melanin-concentrating hormone immunoreactivity during late lactation.](#)

R D Alvisi et. al

Life sciences, 148, 241-246 (2016-2-14)

Melanin-concentrating hormone (MCH) is implicated in the control of food intake, body weight regulation and energy homeostasis. Lactation is an important physiological model to study the hypothalamic integration of peripheral sensory signals, such as...[Read More](#)

[read abstract](#)

[Chemogenetic Activation of an Extinction Neural Circuit Reduces Cue-Induced Reinstatement of Cocaine Seeking.](#)

Isabel F Augur et. al

The Journal of neuroscience : the official journal of the Society for Neuroscience, 36(39), 10174-10180 (2016-9-30)

The ventromedial prefrontal cortex (vmPFC) has been shown to negatively regulate cocaine-seeking behavior, but the precise conditions by which vmPFC activity can be exploited to reduce cocaine relapse are currently unknown. We used viral-mediated gen...[Read More](#)

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[Gelsemine alleviates both neuropathic pain and sleep disturbance in partial sciatic nerve ligation mice.](#)

Yu-ef Wu et. al

Acta pharmacologica Sinica, 36(11), 1308-1317 (2015-9-22)

Gelsemine, an alkaloid from the Chinese herb Gelsemium elegans (Gardn & Champ) Benth., is effective in mitigating chronic pain in rats. In the present study we investigated whether the alkaloid improved sleep disturbance, the most common comorbid sym...[Read More](#)

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[Hyperconnectivity of prefrontal cortex to amygdala projections in a mouse model of macrocephaly/autism syndrome.](#)

Wen-Chin Huang et. al

Nature communications, 7, 13421 (2016-11-16)

Multiple autism risk genes converge on the regulation of mTOR signalling, which is a key effector of neuronal growth and connectivity. We show that mTOR signalling is dysregulated during early postnatal development in the cerebral cortex of germ-line...[Read More](#)

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[Leptin signaling in astrocytes regulates hypothalamic neuronal circuits and feeding.](#)

Jae Geun Kim et. al

Nature neuroscience, 17(7), 908-910 (2014-6-2)

We found that leptin receptors were expressed in hypothalamic astrocytes and that their conditional deletion led to altered glial morphology and synaptic inputs onto hypothalamic neurons involved in feeding control. Leptin-regulated feeding was dimin...[Read More](#)

[read abstract](#)

[Oxytocin receptors modulate a social salience neural network in male prairie voles.](#)

Zachary V Johnson et. al

Hormones and behavior, 87, 16-24 (2016-11-5)

Social behavior is regulated by conserved neural networks across vertebrates. Variation in the organization of neuropeptide systems across these networks is thought to contribute to individual and species diversity in network function during social c...[Read More](#)

[read abstract](#)

[Slow-wave sleep is controlled by a subset of nucleus accumbens core neurons in mice.](#)

Yo Oishi et. al

Nature communications, 8(1), 734 (2017-10-1)

Sleep control is ascribed to a two-process model, a widely accepted concept that posits homeostatic drive and a circadian process as the major sleep-regulating factors. Cognitive and emotional factors also influence sleep-wake behaviour; however, th...[Read More](#)

[read abstract](#)

[Identification of spinal circuits involved in touch-evoked dynamic mechanical pain.](#)

Longzhen Cheng et. al

Nature neuroscience, 20(6), 804-814 (2017-4-25)

Mechanical hypersensitivity is a debilitating symptom for millions of chronic pain patients. It exists in distinct forms, including brush-evoked dynamic and filament-evoked punctate hypersensitivities. We reduced dynamic mechanical hypersensitivity i...[Read More](#)

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[Neuroanatomical Relationships between Orexin/Hypocretin-Containing Neurons/Nerve Fibers and Nicotine-Induced c-Fos-Activated Cells of the Reward-Addiction Neurocircuitry.](#)

Ozra Dehkordi et. al

Journal of alcoholism and drug dependence, 5(4), undefined (2017-10-19)

Orexin/hypocretin-containing neurons in lateral hypothalamus (LH) are implicated in the neurobiology of nicotine addiction. However, the neuroanatomical relationships between orexin-neurons/nerve fibers and nicotine-activated cells within the reward-...[Read More](#)

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[Recurrent rearrangements of FOS and FOSB define osteoblastoma.](#)

Matthew W Fittall et. al

Nature communications, 9(1), 2150 (2018-6-3)

The transcription factor FOS has long been implicated in the pathogenesis of bone tumours, following the discovery that the viral homologue, v-fos, caused osteosarcoma in laboratory mice. However, mutations of FOS have not been found in human bone-fo...[Read More](#)

[read abstract](#)

[Coding of self-motion-induced and self-independent visual motion in the rat dorsomedial striatum.](#)

Anett J Nagy et. al

PLoS biology, 16(6), e2004712 (2018-6-26)

Evolutionary development of vision has provided us with the capacity to detect moving objects. Concordant shifts of visual features suggest movements of the observer, whereas discordant changes are more likely to be indicating independently moving ob...[Read More](#)

[read abstract](#)

[Timing Mechanisms Underlying Gate Control by Feedforward Inhibition.](#)

Yan Zhang et. al
Neuron, 99(5), 941-955 (2018-8-21)

The gate control theory proposes that A β mechanoreceptor inputs to spinal pain transmission T neurons are gated via feedforward inhibition, but it remains unclear how monosynaptic excitation is gated by disinaptic inhibitory inputs that arrive later...[Read More](#)

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[Dorsal BNST \$\alpha\$ 2A-Adrenergic Receptors Produce HCN-Dependent Excitatory Actions That Initiate Anxiogenic Behaviors.](#)

Nicholas A Harris et. al

The Journal of neuroscience : the official journal of the Society for Neuroscience, 38(42), 8922-8942 (2018-8-29)

Stress is a precipitating agent in neuropsychiatric disease and initiates relapse to drug-seeking behavior in addicted patients. Targeting the stress system in protracted abstinence from drugs of abuse with anxiolytics may be an effective treatment m...[Read More](#)

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