Datasheet for ABIN3042631

anti-c-FOS antibody (Middle Region)

1 Image | 12 Publications

Go to Product page

Overview

Quantity:	100 µg
Target:	c-FOS (c-Fos)
Binding Specificity:	AA 170-187, Middle Region
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This c-FOS antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-c-Fos Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human c-Fos, identical to the related rat and mouse sequences.
Sequence:	DQLEDEKSAL QTEIANLL
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-c-Fos Antibody (ABIN3042631). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	c-FOS (c-Fos)
Alternative Name:	FOS (c-Fos Products)
Background:	Synonyms: Proto-oncogene c-Fos,Cellular oncogene fos,G0/G1 switch regulatory protein 7,FOS,G0S7, Background: The human oncogene c-fos is cellular homolog of the transforming gene of Finkel-Biskis-Jinkins (FBJ) murine osteosarcoma virus which was mapped to a single human chromosome. c-Fos is encoded by the FOS gene. FOS was the first transcription factor identified that has a critical function in regulating the development of cells destined to form and maintain the skeleton. FOS is also a major component of the activator protein-1 (AP-1) transcription factor complex, which includes members of the JUN family. c-fos is a major nuclear target for signal transduction pathways involved in the regulation of cell growth, differentiation, and transformation. Using transgenic and knockout mice, Grigoriadis et al. (1995) established a unique role for the proto-oncogene and nuclear transcription factor, Fos, in regulating the differentiation and activity of specific bone cell populations, both during normal development and in bone disease. Sequence Similarities: Belongs to the bZIP family. Fos subfamily.
Molecular Weight:	37 kDa
UniProt:	P01100
Pathways:	S100 Proteins

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Rat, Mouse 1. Barker, P. E., Rabin, M., Watson, M., Breg, W. R., Ruddle, F. H., Verma, I. M. : Human c-fos oncogene mapped within chromosomal region 14q21-q31. Proc. Nat. Acad. Sci. 81: 5826-5830, 1984. 2. Saez, E., Rutberg, S. E., Mueller, E., Oppenheim, H., Smoluk, J., Yuspa, S. H., Spiegelman, B. M. : c-fos is required for malignant progression of skin tumors. Cell 82: 721-732, 1995. 3. Grigoriadis, A. E., Wang, Z.-Q., Wagner, E. F. : Fos and bone cell development: lessons from a nuclear oncogene. Trends Genet. 11: :436-441, 1995.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months

Publications

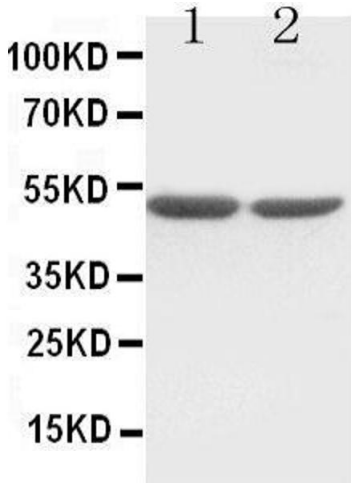
Product cited in:	Zheng, Wu, Gao, Wang: "Tumor suppressive role of miR-569 in lung cancer." in: **Oncology letters**, Vol. 15, Issue 4, pp. 4087-4092, (2018) (PubMed). Hou, Xia, Xiao, Wan, Zhao: "Neurotoxicity of intrathecal injections of dexmedetomidine into the rat spinal dorsal horn." in: **Neural regeneration research**, Vol. 7, Issue 23, pp. 1765-70, (2015) (PubMed). Qiu, Ding, Cui, Hu, Ding: "The Expression Patterns of c-Fos and c-Jun Induced by Different Frequencies of Electroacupuncture in the Brain." in: **Evidence-based complementary and alternative medicine : eCAM**, Vol. 2015, pp. 343682, (2015) (PubMed). Liu, Peng, Lin, Luo, Jiang, Mo, Yung: "Effect of rhynchophylline on the expression of p-CREB and sc-Fos in triatum and hippocampal CA1 area of methamphetamine-induced conditioned place

preference rats." in: **Fitoterapia**, Vol. 92, pp. 16-22, (2014) (PubMed).

Zhang, Li, Xu, Mei, Zhang, Murong, Sun, Tong: "Changes of c-fos, malondialdehyde and lactate in brain tissue after global cerebral ischemia under different brain temperatures." in: **Journal of Huazhong University of Science and Technology. Medical sciences = Hua zhong ke ji da xue xue bao. Yi xue Ying De wen ban = Huazhong keji daxue xuebao. Yixue Yingdewen ban**, Vol. 34, Issue 3, pp. 354-8, (2014) (PubMed).

There are more publications referencing this product on: Product page

Images



Western Blotting

Image 1. Anti-c-Fos antibody, Western blotting Lane 1: Cell Lysate Lane 2: COLO320 Cell Lysate