

Anti-c-FOS Antibody

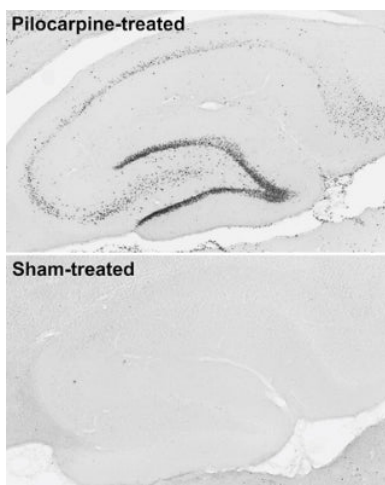


Product Details

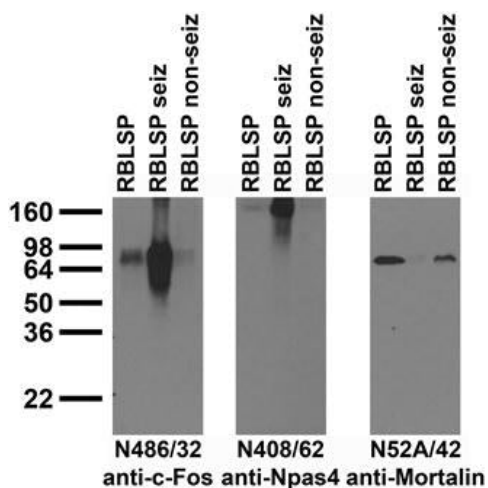
Available Variants	100 µL (SKU:75-506) 20 µL (SKU:75-506-020)
Conjugate	Unconjugated
Isotype	IgG2a
Clone	N486/32
Gene Name	FOS, G0S7
Host Species	Mouse
Concentration	1 mg/mL
Format	Purified by Protein A chromatography
Physical State	Liquid
Buffer	10 mM Tris, 50 mM Sodium Chloride, 0.065% Sodium Azide pH 7.125
Production Notes	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography. Purified mAbs are >90% specific antibody.
Applications	ELISA, ICC, IHC, WB
Species Reactivity	Human, Mouse, Rat
Immunogen	Fusion protein amino acids 1-380 (full-length) of human FOS (accession number P01100) produced recombinantly in E. Coli
Specificity	No cross-reactivity reported
Molecular Weight	70 kDa
Quality Control	Each new lot of this antibody is tested to confirm that it recognizes a single immunoreactive band of expected molecular weight when tested by Western Blot.

Storage	Aliquot and store at $\leq -20^{\circ}\text{C}$ for long term storage. For short term storage, store at $2-8^{\circ}\text{C}$. For maximum recovery of product, centrifuge the vial prior to removing the cap.
Antibody Registry ID	AB_2927659
UniProt ID	<u>P01100</u> UniProt Summary: Nuclear phosphoprotein which forms a tight but non-covalently linked complex with the JUN/AP-1 transcription factor. In the heterodimer, FOS and JUN/AP-1 basic regions each seems to interact with symmetrical DNA half sites. On TGF-beta activation, forms a multimeric SMAD3/SMAD4/JUN/FOS complex at the AP1/SMAD-binding site to regulate TGF-beta-mediated signaling. Has a critical function in regulating the development of cells destined to form and maintain the skeleton. It is thought to have an important role in signal transduction, cell proliferation and differentiation. In growing cells, activates phospholipid synthesis, possibly by activating CDS1 and PI4K2A. This activity requires Tyr-dephosphorylation and association with the endoplasmic reticulum.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	2353

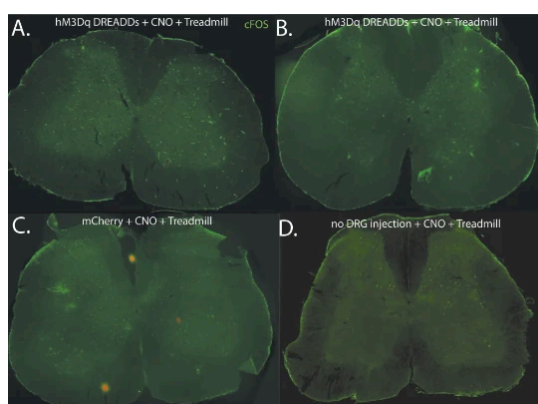
Product Images



Immunohistochemistry against hippocampus from adult rats treated with pilocarpine to induce seizures (top) and with saline (bottom).



Immunoblot against crude brain low-speed pellets from untreated adult rats (RBLSP), adult rats treated with kainic acid to induce seizures (RBLSP seiz) and adult rats treated with saline (RBLSP non-seiz) probed with N486/32 (left), N408/62 (middle) and N52A/42 (right) TC supe.



Rat spinal cord sections labeling cFOS (green, Cat 75-506) to confirm excitation of aerents by DREAD. Two “experimental” rats (A,B) received excitatory DREADDS injections into DRGs (AAV2-hSyn-hM3Dq-mCherry). Three weeks later rats were injected with CNO (4 mg/kg), rested 30 minutes followed by running one hour on traeadmill, then sacrificed. Two control rats, (C) had DRGs injected with mCherry sham (AAV2-hSyn-mCherry), or (D) no DRG injections. Image from publication CC-BY-4.0. [PMID: 36090254](https://pubmed.ncbi.nlm.nih.gov/36090254/)

Product Page URL: www.antibodiesinc.com/products/anti-fos-antibody-n486-32-75-506



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