

Code No. 019-29491 (10 μ L)
015-29493 (100 μ L)

Anti c-Fos, Guinea Pig 抗 c-Fos, モルモット

Background

c-fos is known as an immediate early gene a dimer with the c-Jun protein as a transcription factor to form AP-1¹⁾, promoting the transcription of various genes related to cell differentiation and proliferation, learning, motor control, and cognition. Because *c-fos* expression is rapidly and transiently induced in neurons by various extracellular stimuli²⁾, it is widely used as a marker of neural activity in the brain.

Anti c-Fos, Guinea Pig is a guinea pig polyclonal antibody that reacts with c-Fos.

This product is for research use only. Not for use in diagnostic procedures or therapeutic use.

Description

[Reactivity]	Reacts with c-Fos
[Immunogen]	Synthetic peptide corresponding to the N-terminus of c-Fos
[Species cross reactivity]	Mouse (Other species have not been tested)
[Host]	Guinea pig
[Isotype]	— (Polyclonal)
[Concentration]	Described on the label
[Purity]	Protein A affinity chromatography
[Form]	Liquid
[Preservative]	0.05% Sodium azide
[Buffer]	PBS containing 1% trehalose

Application

Immunohistochemistry (frozen section) 1 : 500 ~ 1 : 2,000

The optimal dilutions/concentrations should be determined by each laboratory.

Storage

Store at -20°C.

Avoid repeated freeze and thaw.

Package

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Protocol examples (Immunohistochemistry, frozen brain section)

1. Perfusion fixation
Perfuse with sodium citrate/PBS to remove blood, followed by perfusion with 4% PFA.
2. Post-fixation
4% PFA (~24 hours)
3. Immersion in sucrose
Place tissue into 30% Sucrose in PBS until the tissue has sunken to the bottom of the vial.
(4°C, overnight ~ approximately 2 days)
4. Preparation of frozen sections
After removing sucrose, prepare frozen blocks and cut 40- μ m thick sections using a cryostat.
5. Blocking
5% normal goat serum in 0.3% Triton X-100/PBS (4°C, 24~72 hours)
* Please use serum from the same species as the secondary antibody.
6. Primary antibody reaction
Anti c-Fos, Guinea pig (1 : 1,000), 1% normal goat serum in 0.3% Triton X-100/PBS (4°C, 1~2 days).
7. Washing
0.3% TritonX-100/PBS (5 minutes $\times$ 3)
8. Secondary antibody reaction
Alexa Fluor® 488 AffiniPure Goat Anti-Guinea Pig IgG (H+L) (1 : 500), 1% normal goat serum in 0.3% Triton X-100/PBS (RT, 2 hours)
9. Washing
0.3% TritonX-100/PBS (5 minutes $\times$ 3)
10. Mounting
The sample is sealed in mounting medium and stored at 4°C in a dark place.

References

- 1) Curran, T. and Morgan, J.I.: *J. Neurobiol.*, **26**, 403-412 (1995).
Fos : An immediate-early transcription factor in neurons
- 2) Bullitt, E.: *J. Comp. Neurol.* **296**, 517-530 (1990). Expression of C-fos-like protein as a marker for neuronal activity following noxious stimulation in the rat

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