



Qty: 50 µg/200 µL

Rabbit anti-c-Fos

Catalog No. 38-4950

Lot No.

Rabbit anti-c-Fos

FORM

This polyclonal antibody is supplied as a 200 µL aliquot at a concentration of 0.25 mg/mL in phosphate buffered saline (pH 7.4) containing 0.1% sodium azide. This antibody is epitope-affinity purified from rabbit antiserum.

PAD: ZMD.382

IMMUNOGEN

Synthetic peptide derived from the C-terminal region of human c-Fos

SPECIFICITY

This antibody reacts with the ~55 kDa c-Fos protein. Additional and unidentified bands at ~65 and ~75 kDa were also observed in Western blots of EGF-stimulated A431 and T47D cell lysates.

REACTIVITY

Reactivity has been confirmed in Western blotting with human U2-OS, SW480, T47D, EGF-stimulated A431, NCI-H69, and Jurkat cell lysates. The 55 kDa target band was also identified in mouse NIH-3T3 and rat PC-12 cell lysates. Based on amino acid sequence homology, reactivity is also expected with pig, bovine, cat, Chinese hamster, and golden hamster c-Fos proteins.

Sample	Western Blotting
Human	+++
Rat	+++
Mouse	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

Western Blotting: 1-3 µg/mL

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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BACKGROUND

The c-Fos oncoprotein is a member of the AP-1 family of transcription factors, which includes other Fos-related (FosB, Fra-1, Fra-2) and Jun-related (c-Jun, Jun B, Jun D) proteins.¹⁻² The downstream effects of c-Fos induction are numerous and in addition to roles in proliferation, transformation and apoptosis, c-Fos has been implicated in the differentiation of several cell types. c-Fos also plays a role in the regulation of gene expression during proliferation and in the responses of postmitotic neurons to *trans*-synaptic stimulation.³ c-Fos is also required for the development of a malignant tumor.⁴

c-Fos is localized in the nucleus of normal human tissues.

REFERENCES

1. Angel P, et al. *Biochim Biophys Acta* 1072: 129-157, 1991.
2. Brown JR, et al. *Mol Cell Biol* 18: 5605-19, 1998.
3. Chan JYH, et al. *Am J Physiol Heart Circ Physiol* 273: H2200-H2208, 1997.
4. Saez E, et al. *Cell* 82(5): 721-32, 1995.

RELATED PRODUCTS

Product	Conjugate	Cat. No.
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

Conjugate	ZyMAX[™] Goat x Rabbit IgG (H+L)	ZyMAX[™] Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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