



**Catalog Number:** RA22146

**Host:** Rabbit

**Product Type:** Rabbit Polyclonal

**Species Reactivity:** Human, Rat, Mouse

**Immunogen Sequence:** Full length recombinant human protein expressed in and purified from E. coli.

**Format:** Affinity purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3

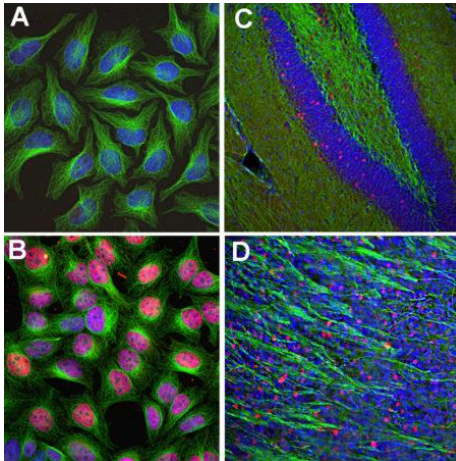
**Applications:** Immunofluorescence: 1:2,000  
Immunohistochemistry: 1:2,000  
Western Blot: 1:5,000-10,000

**Storage:** Dilutions listed as a recommendation. Optimal dilution should be determined by investigator. Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

### Application Notes

#### Description/Data

The FOS gene and protein were originally identified as the transforming element in a viral oncogene. The transforming protein was named v-FOS, for viral FOS, and the normal cellular non-transforming proto-oncogene was called c-FOS, for cellular FOS. The c-FOS protein is a normal gene acting as an on/off switch controlling the expression of many other genes. Since c-FOS expression is induced in neurons which are rapidly firing action potentials, appropriate c-Fos antibodies can be used to identify activated neurons in tissues.



RA22146 was made against recombinant full length human c-FOS expressed in and purified from E. coli. It can be used to identify activated cells in cell culture and in sections and to follow c-FOS expression in western blots of cell and tissue homogenates.

*Image: Immunofluorescent analysis of cortical neuron-glia cell culture from E20 rat stained with chicken pAb to ankyrin 3, CH22125, dilution 1:2,000 in green, and costained with mouse mAb to FOX3/NeuN dilution 1:2,000 in red. The blue is Hoechst staining of nuclear DNA. The CH22125 antibody stains the axonal initial segments, while the FOX3/NeuN antibody reveals perikarya and nuclei of neurons.*

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