

## Phospho-AFX (Ser193) Polyclonal Antibody

**CATALOG #:** 3270-100

**AMOUNT:** 100 µg

**LOT #:** \_\_\_\_\_

### FORMULATION:

100 µg (0.5 mg/ml) peptide affinity purified polyclonal rabbit anti-Phospho-AFX antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% sodium azide

**SPECIES REACTIVITY:** Human

### STORAGE CONDITIONS:

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

### DESCRIPTION:

The forkhead family of transcription factors is involved in tumorigenesis in rhabdomyosarcoma and acute leukemias. Within the family, three members (FKHR, AFX, AND FKHL1) have sequence similarity to the nematode homolog Daf 16, recently shown to mediate signaling via a pathway involving IGFR1, P13-K and Akt. There are three potential Akt phosphorylation sites on the FKHR proteins. One site, FKHR Ser256 is found in the Forkhead domain and the other two are outside this domain. Recent studies show that phosphorylation of FKHR family members by Akt promotes cell survival. Phosphorylation regulates FKHR nuclear translocation and target gene transcription. Insulin also stimulates FKHR phosphorylation at Ser253.

### SPECIFICITY:

Phospho-AFX (Ser193) antibody detects only the phosphorylated Ser193 of AFX and does not react with nonphosphorylated AFX.

### APPLICATION AND USAGE:

The antibody can be used for Western blotting (1-2 µg/ml). However, the optimal concentrations should be determined individually.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

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