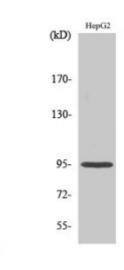


## **Anti-Fer antibody**



**Description** Rabbit polyclonal to Fer.

Model STJ93055

**Host** Rabbit

**Reactivity** Human, Mouse, Rat

**Applications** ELISA, IF, IHC, WB

**Immunogen** Synthesized peptide derived from human Fer

**Immunogen Region** 740-820 aa, C-terminal

**Gene ID** <u>2241</u>

Gene Symbol FER

**Dilution range** WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:5000

**Specificity** Fer Polyclonal Antibody detects endogenous levels of Fer protein.

**Tissue Specificity** Isoform 1 is detected in normal colon and in fibroblasts (at protein level).

Isoform 3 is detected in normal testis, in colon carcinoma-derived metastases in lung, liver and ovary, and in colon carcinoma and hepato carcinoma cell lines (at protein level). Isoform 3 is not detected in normal colon or in normal

fibroblasts (at protein level). Widely expressed.

**Purification** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

**Note** For Research Use Only (RUO).

Protein Name Tyrosine-protein kinase Fer Feline encephalitis virus-related kinase FER

Fujinami poultry sarcoma/Feline sarcoma-related protein Fer Proto-oncogene

c-Fer Tyrosine kinase 3 p94-Fer

Molecular Weight 95 kDa

**Clonality** Polyclonal

**Conjugation** Unconjugated

**Isotype** IgG

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Concentration** 1 mg/ml

**Storage Instruction** Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links <u>HGNC:36550MIM:176942</u>

**Alternative Names**Tyrosine-protein kinase Fer Feline encephalitis virus-related kinase FER

Fujinami poultry sarcoma/Feline sarcoma-related protein Fer Proto-oncogene

c-Fer Tyrosine kinase 3 p94-Fer

**Function** Tyrosine-protein kinase that acts downstream of cell surface receptors for

growth factors and plays a role in the regulation of the actin cytoskeleton, microtubule assembly, lamellipodia formation, cell adhesion, cell migration and chemotaxis. Acts downstream of EGFR, KIT, PDGFRA and PDGFRB. Acts downstream of EGFR to promote activation of NF-kappa-B and cell proliferation. May play a role in the regulation of the mitotic cell cycle. Plays

a role in the insulin receptor signaling pathway and in activation of phosphatidylinositol 3-kinase. Acts downstream of the activated FCER1 receptor and plays a role in FCER1 (high affinity immunoglobulin epsilon receptor)-mediated signaling in mast cells. Plays a role in the regulation of mast cell degranulation. Plays a role in leukocyte recruitment and diapedesis in response to bacterial lipopolysaccharide (LPS). Plays a role in synapse organization, trafficking of synaptic vesicles, the generation of excitatory postsynaptic currents and neuron-neuron synaptic transmission. Plays a role in neuronal cell death after brain damage. Phosphorylates CTTN, CTNND1, PTK2/FAK1, GAB1, PECAM1 and PTPN11. May phosphorylate JUP and PTPN1. Can phosphorylate STAT3, but the biological relevance of this

depends on cell type and stimulus.

**Sequence and Domain Family** The coiled coil domains mediate homooligomerization and are required for

location at microtubules.; The N-terminal region including the first coiled coil domain mediates interaction with phosphoinositide-containing membranes.

**Cellular Localization** Cytoplasm, cytoskeleton. Cell membrane. Peripheral membrane

protein. Cytoplasmic side. Cell projection. Cell junction. Membrane. Peripheral membrane protein. Cytoplasmic side. Nucleus. Cytoplasm, cell cortex. Associated with the chromatin. Detected on microtubules in polarized and motile vascular endothelial cells. Colocalizes with F-actin at the cell cortex. Colocalizes with PECAM1 and CTNND1 at nascent cell-cell contacts.

Post-translational Modifications

Autophosphorylated. Polyubiquitinated; this leads to proteasomal degradation.

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