

Rabbit anti-Human, Mouse FER Polyclonal Antibody | anti-FER antibody

Phospho-FER(Tyr402) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA320737	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

FER; Polyclonal Antibody; Phospho-FER(Tyr402) Antibody; c FER; Feline encephalitis virus related kinase FER; Fer (fps/fes related) tyrosine kinase (phosphoprotein NCP94); Fer (fps/fes related) tyrosine kinase; FER_HUMAN; FerT; Fujinami poultry sarcoma/Feline sarcoma related protein Fer; p94 FER; p94-FER; Pe1Fe10; Pe1Fe13; Pe1Fe3; Pe1Fe6; Phosphoprotein NCP94; PPP1R74; Protein phosphatase 1 regulatory subunit 74; Proto oncogene tyrosine protein kinase FER; Proto-oncogene c-Fer; TYK3; Tyrosine kinase 3; Tyrosine-protein kinase Fer; anti-FER antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-FER(Tyr402) antibody detects endogenous levels of FER only when phosphorylated at Tyrosine 402
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	647
Applicable Applications for anti-FER antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human FER around the phosphorylation site of Tyrosine 402
Subcellular Location	Cytoplasm. Nucleus. Associated with the chromatin.
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.
Conjugation	Unconjugated
Epitope	Phospho Tyr402
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)
AAA320737 at 1/200 staining human testis tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis on Jurkat cell lysate using Phospho-FER(Tyr402) Antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)
AAA320737 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-FER antibody	Description: Fer protein is a member of the FPS/FES family of nontransmembrane receptor tyrosine kinases. It regulates cell-cell adhesion and mediates signaling from the cell surface to the cytoskeleton via growth factor receptors. 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. Subunit Structure: Homotrimer. Interacts with ARHGDI1, IRS1, JAK1, NRP1, PIK3R1, PLEC and TMF1. Interacts with PPP1CA and regulates its phosphorylation at 'Thr-320' (By similarity). Interacts with CTNND1, EGFR, FLT3, PECAM1, PDGFR and STAT3. Interacts (via SH2 domain) with CTTN. Interacts with HSP90; this stabilizes phosphorylated FER and protects FER against proteasomal degradation. Component of a complex that contains at least FER, CTTN and PTK2/FAK1. Post-translational Modifications: Autophosphorylated. Polyubiquitinated; this leads to proteasomal degradation. Similarity: 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. Belongs to the protein kinase superfamily. Tyr protein kinase family. Fes/fps subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	808392675
NCBI GeneID	2241
NCBI Accession #	NP_001294957.1
NCBI GenBank Nucleotide #	NM_001308028.1
UniProt Accession #	P16591; B2RCR4; B4DSQ2; H2FLB8

Molecular Weight	Observed: 85 kDa Predicted: 95 kDa
NCBI Official Full Name	tyrosine-protein kinase Fer isoform b
NCBI Official Synonym Full Names	FER tyrosine kinase
NCBI Official Symbol	FER
NCBI Official Synonym Symbols	TYK3; PPP1R74; p94-Fer
NCBI Protein Information	tyrosine-protein kinase Fer
UniProt Protein Name	Tyrosine-protein kinase Fer
UniProt Gene Name	FER
UniProt Synonym Gene Names	TYK3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/fer-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/320737>