

Anti-Fer Antibody

Catalog Number: M01630

About Fer

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). Phosphorylates CTTN, CTNND1, PTK2/FAK1, GAB1, PECAM1 and PTPN11. May phosphorylate JUP and PTPN1. Can phosphorylate STAT3 according to PubMed:[10878010](#) and PubMed:[19159681](#), but clearly plays a redundant role in STAT3 phosphorylation. According to PubMed:[11134346](#), cells where wild type FER has been replaced by a kinase-dead mutant show no reduction in STAT3 phosphorylation. Phosphorylates TMF1. Isoform 3 lacks kinase activity.

Overview

Product Name	Anti-Fer Antibody
Reactive Species	Mouse
Description	Boster Bio Anti-Fer Antibody (Catalog # M01630). Tested in WB, Flow Cytometry, IF application(s). This antibody reacts with Mouse.
Application	Flow Cytometry, IF, WB
Clonality	Monoclonal 1487CT794.8.50
Formulation	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Mouse
Uniprot ID	P70451

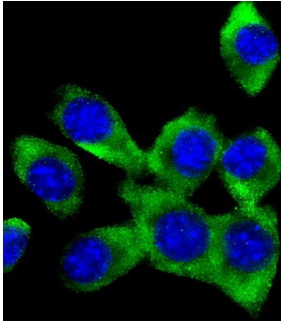
Technical Details

Immunogen	This Fer antibody is generated from a mouse immunized with a recombinant protein.
Predicted Reactive Species	Bovine, Chicken, Horse, Monkey, Pig, Sheep, Xenopus
Isotype	IgG2a,k
Purification	This antibody is purified through a protein G column, followed by dialysis against PBS.

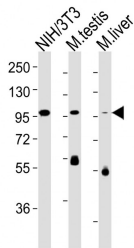
Suggested Dilutions

IF: 1:25
WB: 1:4000
FC: 1:25

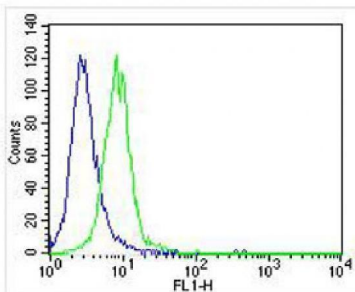
Anti-Fer Antibody (M01630) Images



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (mouse embryonic fibroblast cell line) cells labeling Fer with M01630 at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-mouse IgG secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm staining on NIH/3T3 cell line. The nuclear counter stain is DAPI (blue).



All lanes : Anti-Fer Antibody at 1:4000 dilution
Lane 1: NIH/3T3 whole cell lysates
Lane 2: mouse testis lysates
Lane 3: mouse liver lysates
Lysates/proteins at 20 ug per lane.
Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution
Predicted band size : 95 kDa
Blocking/Dilution buffer: 5% NFD/MTBST.



Overlay histogram showing NIH/3T3 cells stained with M01630 (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (M01630, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Mouse IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/400 dilution for 40 min at 37°C. Isotype control antibody (blue line) was mouse IgG1 (1g/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

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Anti-Fer Antibody

For Research Use Only. Not for use in diagnostic procedures.