

Anti-FAK PTK2 Rabbit Monoclonal Antibody

Catalog Number: M00151

About PTK2

Phosphoinositide-3-kinase (PI3K) that phosphorylates PtdIns (Phosphatidylinositol), PtdIns4P (Phosphatidylinositol 4-phosphate) and PtdIns (4,5) P2 (Phosphatidylinositol 4,5-bisphosphate) to generate phosphatidylinositol 3,4,5-trisphosphate (PIP3) . PIP3 plays a key role by recruiting PH domain-containing proteins to the membrane, including AKT1 and PDK1, activating signaling cascades involved in cell growth, survival, proliferation, motility and morphology. Participates in cellular signaling in response to various growth factors.

Overview

Product Name	Anti-FAK PTK2 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-FAK PTK2 Rabbit Monoclonal Antibody catalog # M00151. Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.
Application	Flow Cytometry, IP, IF, IHC, ICC, WB
Clonality	Monoclonal DDD-16
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q05397

Technical Details

Immunogen	A synthesized peptide derived from human FAK
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

WB 1:500-1:2000

IHC 1:50-1:200

ICC/IF 1:50-1:200

IP 1:30

FC 1:50

Anti-FAK PTK2 Rabbit Monoclonal Antibody (M00151) Images

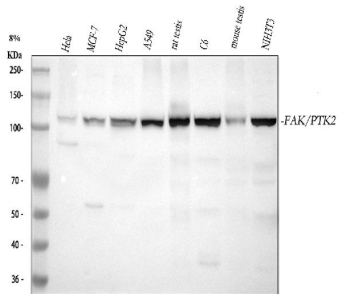
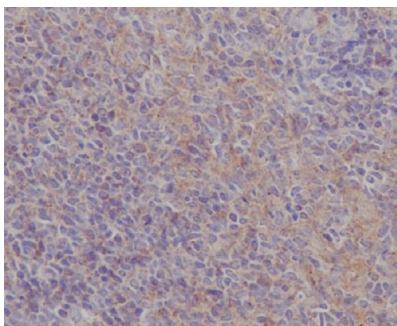


Figure 1. Western blot analysis of FAK using anti-FAK antibody (M00151).

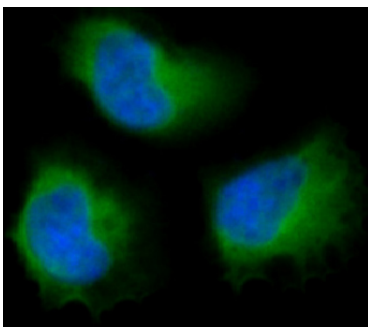
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,
Lane 2: human MCF-7 whole cell lysates,
Lane 3: human HepG2 whole cell lysates,
Lane 4: human A549 whole cell lysates,
Lane 5: rat testis tissue lysates,
Lane 6: rat C6 whole cell lysates,
Lane 7: mouse testis tissue lysates,
Lane 8: mouse NIH/3T3 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-FAK antigen affinity purified monoclonal antibody (Catalog # M00151) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for FAK at approximately 119 kDa. The expected band size for FAK is at 119 kDa.



Immunohistochemical analysis of paraffin-embedded mouse spleen, using FAK Antibody.



Immunofluorescent analysis of Hela cells, using FAK Antibody.

2 Publications Citing This Product

1. PubMed ID: 31773683, Effect of celecoxib on protein expression of FAK and Cx43 in DMBA induced rat tongue carcinoma cells B-Z Shan 1, B

Guo, Y-S Li, X-F Sun Eur Rev Med Pharmacol Sci. 2019 Nov;23(21):9454-9463. doi: 10.26355/eurev_201911_19439.

2. PubMed ID: 25621028, Su Gq, Zhang Fx, Mao Hh, Liu Xw, Zheng Ys, Zhang Sy, Su Jj. Oncol Lett. 2015 Feb;9(2):595-603. Epub 2014 Nov 21.
Research Of Shnamir Inhibitory Effects Towards Focal Adhesion Kinase Expression In The Treatment Of Gastric Cancer.

Visit bosterbio.com/anti-fak-rabbit-monoclonal-antibody-m00151-boster.html to see all 2 publications.

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