

Phospho-FAK (Tyr576) Recombinant Rabbit Monoclonal Antibody (2H74L24)

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human, Mouse, Xenopus
Host/Isotype	Rabbit / IgG
Class	Recombinant Monoclonal
Type	Antibody
Clone	2H74L24
Conjugate	Unconjugated
Immunogen	A peptide corresponding to amino acids 573-582 of Q05397.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532268

Applications	Tested Dilution	Publications
Western Blot (WB)	-	5 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Immunocytochemistry (ICC/IF)	1:100	2 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

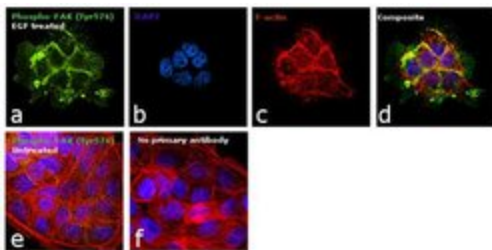
Product Specific Information

This antibody is predicted to react with chimpanzee, Rhesus monkey, mouse, rat, chicken, Xenopus, zebrafish and Macaque based on sequence homology.

Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Advanced Verification Data



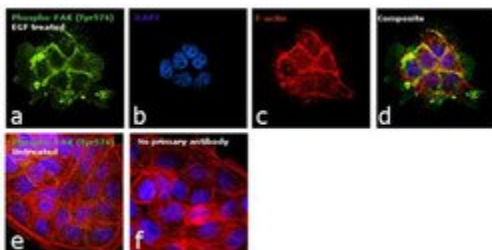
Phospho-FAK (Tyr576) Antibody (700013)

Altered expression of target protein upon cell treatment demonstrates antibody specificity. Immunofluorescence analysis of Phospho-FAK (Tyr576) using Phospho-FAK (Tyr576) Antibody (2H74L24) (Product # 700013) shows induction of FAK phosphorylation at Tyr576 residue in A-431 cell line upon EGF treatment. Cell treatment validation info.

Product Images For Phospho-FAK (Tyr576) Recombinant Rabbit Monoclonal Antibody (2H74L24)

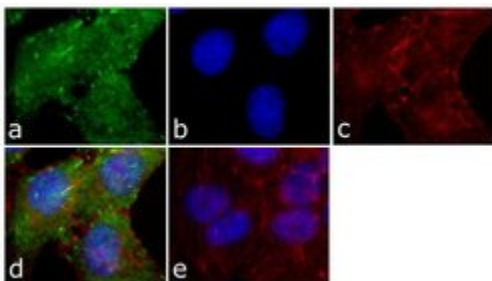
Phospho-FAK (Tyr576) Antibody (700013) in ICC/IF

Immunofluorescence analysis of Phospho-FAK (Tyr576) Antibody was performed using 90% confluent log phase A-431 cells treated with 200 ng/mL of EGF for 10 minutes. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Phospho-FAK (Tyr576) Recombinant Rabbit Monoclonal Antibody (Product # 700013) at 1:100 dilution in 0.1% BSA and incubated overnight at 4 degree and then labeled with Goat anti-Rabbit IgG (H+L) Recombinant Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing membrane localization. Panel e shows untreated cells with no signal. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



Phospho-FAK (Tyr576) Antibody (700013) in ICC/IF

Immunofluorescent analysis of FAK (pY576) was done on 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 15 minutes; permeabilized with 0.25% Triton X-100 for 10 minutes followed by blocking with 5% BSA for 1 hour at room temperature. The cells were incubated with FAK (pY576) Recombinant Rabbit Monoclonal Antibody (Product # 700013) at 1 µg/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Goat anti-Rabbit IgG Secondary Antibody (Product # A-11008) at a dilution of 1:400 for 30 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor 594 Phalloidin (Product # A12381). Panel d is a merged image showing punctate and cytoplasmic localization of FAK (pY576). and panel e is a no primary antibody control. The images were captured at 20X magnification.



[View more figures on thermofisher.com](https://www.thermofisher.com)

9 References

Western Blot (5)

Molecular neurobiology

MARCKS Is Necessary for Netrin-DCC Signaling and Corpus Callosum Formation.

"Published figure using Phospho-FAK (Tyr576) recombinant monoclonal antibody (Product # 700013) in Western Blot"

Authors: Brudvig JJ, Cain JT, Schmidt-Grimminger GG, Stumpo DJ, Roux KJ, Blackshear PJ, Weimer JM

Species
Not Applicable

Dilution
Not Cited

Year
2018

Molecular cancer

Targeting the insulin-like growth factor receptor and Src signaling network for the treatment of non-small cell lung cancer.

"700013 was used in western blot to study mechanisms that confer resistance to therapeutic interventions in the insulin-like growth factor receptor pathway"

Authors: Min HY, Yun HJ, Lee JS, Lee HJ, Cho J, Jang HJ, Park SH, Liu D, Oh SH, Lee JJ, Wistuba II, Lee HY

Species
Human

Dilution
Not Cited

Year
2015

[View more WB references on thermofisher.com](#)

Immunohistochemistry (1)

The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society

Understanding the roles of FAK in cancer: inhibitors, genetic models, and new insights.

"700013 was used in Immunohistochemistry to discuss FAK inhibitors as well as genetic mouse models to provide mechanistic insights into FAK signaling and its potential in cancer therapy."

Authors: Yoon H, Dehart JP, Murphy JM, Lim ST

Species
Mouse

Dilution
Not Cited

Year
2015

Immunocytochemistry (2)

Nature communications

A ligand-independent integrin 1 mechanosensory complex guides spindle orientation.

"Published figure using Phospho-FAK (Tyr576) monoclonal antibody (Product # 700013) in Immunofluorescence"

Authors: Petridou NI, Skourides PA

Species
Human

Dilution
1:200

Year
2016

More applications with references on thermofisher.com

Misc (1)

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