

# ERK1 Recombinant Rabbit Monoclonal Antibody (3H4L13)

## Product Details

Size	100 µg
Species Reactivity	Human, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	3H4L13
Conjugate	Unconjugated
Immunogen	proprietary
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_2532425

Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	-
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	5 µg/mL	-
Flow Cytometry (Flow)	2-4 µg/1x10 <sup>6</sup> cells	-

## Product Specific Information

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.

Product Images For ERK1 Recombinant Rabbit Monoclonal Antibody (3H4L13)

ERK1 Antibody (701183) in WB

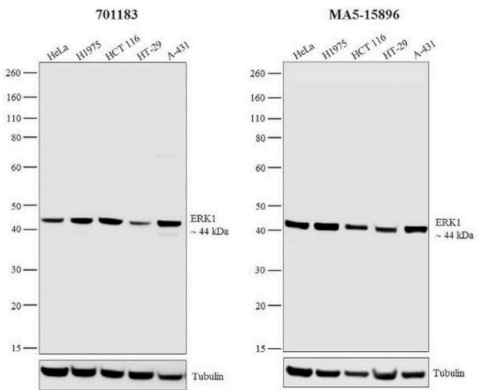
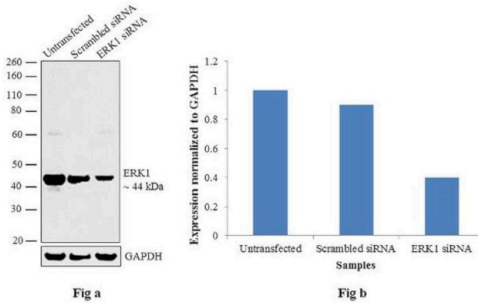
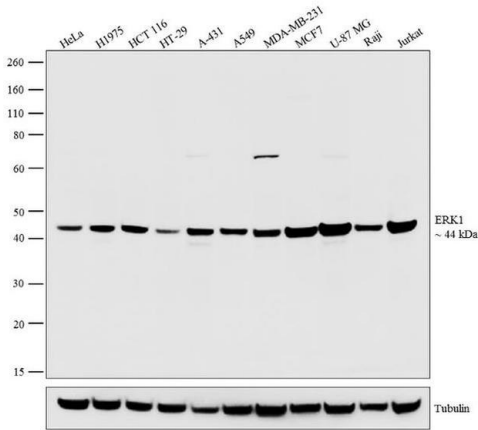
Western blot analysis was performed on whole cell extracts (30 µg lysate) of HeLa (Lane 1), H1975 (Lane 2), HCT 116 (Lane 3), HT-29 (Lane 4), A-431 (Lane 5), A549 (Lane 6), MDA-MB-231 (Lane 7), MCF7 (Lane 8), U-87 MG (Lane 9), Raji (Lane 10) and Jurkat (Lane 11). The blots were probed with Anti-ERK1 Recombinant Rabbit Monoclonal Antibody (Product # 701183, 1 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 44 kDa band corresponding to ERK1 was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).

ERK1 Antibody (701183)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. MCF7 cells were transfected with ERK1 siRNA and decrease of signal was observed in Western blot using Anti-ERK1 Recombinant Rabbit Monoclonal Antibody (Product # 701183). {KD}

ERK1 Antibody (701183)

Antibody specificity was demonstrated by showing that antibodies raised against the same target protein perform similarly. Western blot of ERK1 using Anti-ERK1 Recombinant Rabbit Monoclonal Antibody (Product # 701183), tested in parallel with ERK1 Monoclonal Antibody (Product # MA5-15896), shows similar expression of ERK1 in the cell lines tested. {IAV}



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Immunohistochemistry (1)

Frontiers in medicine	Year 2020
Pathology of Fibrosis in Crohn's Disease-Contribution to Understanding Its Pathogenesis.	Species Human
"701183 was used in Immunohistochemistry-immunofluorescence to investigate the pathobiology of fibrosis in resection specimens from patients with Crohn's disease."	Dilution 1:20
Authors: Zidar N,Langner C,Jerala M,Boštjani E,Drobne D,Tomaži A	

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