

# FABP4 Recombinant Rabbit Monoclonal Antibody (2H3L2)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	2H3L2
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to amino acids 1-132 of human adipocyte-type fatty acid-binding protein
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_2532415

Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-3 µg/mL	-
Immunocytochemistry (ICC/IF)	1-3 µg/mL	-

## Product Specific Information

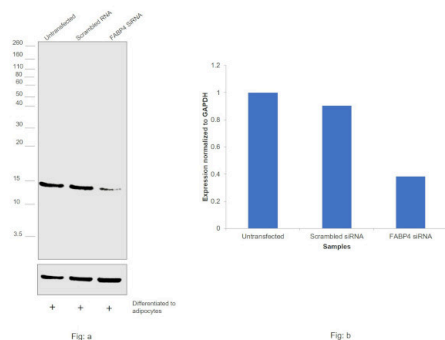
Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

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 FABP4 Recombinant Rabbit Monoclonal Antibody (2H3L2)

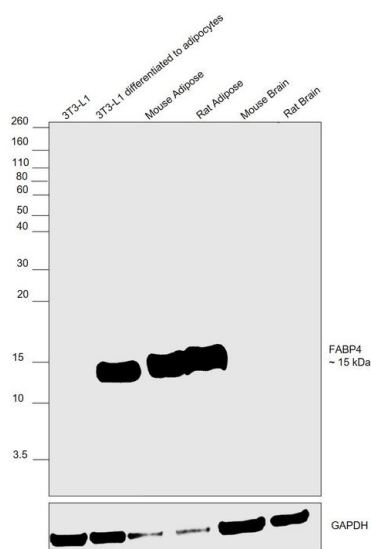
## FABP4 Antibody (701158)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. 3T3-L1 cells were differentiated to adipocytes and were transfected with Fatty acid-binding protein, adipocyte siRNA and decrease in signal intensity was observed in Western Blot application using Anti-FABP4 Recombinant Rabbit Monoclonal Antibody (2H3L2) (Product # 701158). {KD}



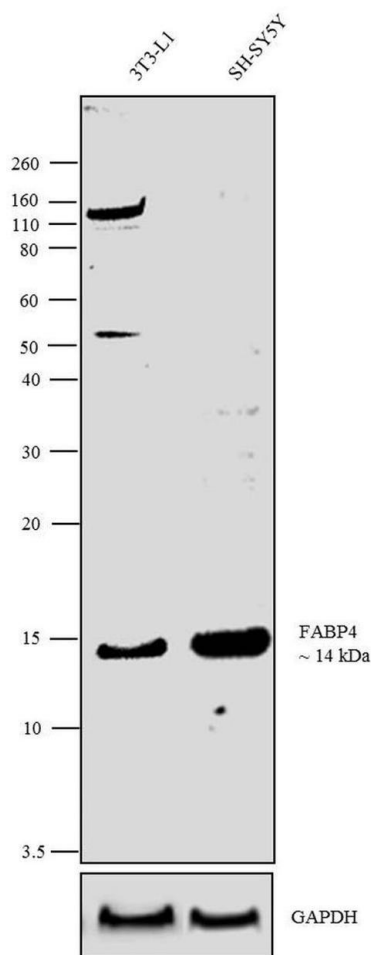
## FABP4 Antibody (701158) in WB

Western blot was performed using Anti-FABP4 Recombinant Rabbit Monoclonal Antibody (2H3L2) (Product # 701158) and a 15 kDa band corresponding to Fatty acid-binding protein, adipocyte was observed across cell lines and tissue. Whole cell extracts (40 µg lysate) of 3T3-L1 (Lane 1), 3T3-L1 differentiated to adipocytes (Lane 2), Mouse Adipose (Lane 3), Rat Adipose (Lane 4), Mouse Brain (Lane 5), Rat Brain (Lane 6) were electrophoresed using NuPAGE™ 12% Bis-Tris Protein Gel (Product # NP0341BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (0.5 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:20,000 dilution using the iBright™ FL1500 Imaging System (Product # A44115). Chemiluminescent detection was performed using SuperSignal™ West Pico PLUS Chemiluminescent Substrate (Product # 34580). Upon differentiation of 3T3-L1 cells to adipocytes the expression of FABP4 should upregulate as observed. Also, a relative expression was observed in Adipose (high expressing tissue model) versus brain (low expressing tissue model) as reported.



### FABP4 Antibody (701158) in WB

Western blot analysis was performed on membrane enriched extracts (30 µg lysate) of 3T3-L1 (Lane 1) and SH-SY5Y (Lane 2). The blots were probed with Anti-FABP4 Rabbit Monoclonal Antibody (Product # 701158, 2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2,500 dilution). A 14 kDa band corresponding to FABP4 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).



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