

# EBP50 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Dog, Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Bacterially expressed, His-tagged human EBP50.
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2191493

Applications	Tested Dilution	Publications
Western Blot (WB)	0.2-1 µg/mL	12 Publications
Immunohistochemistry (IHC)	-	17 Publications
Immunohistochemistry (Paraffin) (IHC (P))	10 µg/mL	6 Publications
Immunocytochemistry (ICC/IF)	2 µg/mL	4 Publications
Immunoprecipitation (IP)	Assay-dependent	1 Publication

## Product Specific Information

PA1-090 detects ezrin-radixin-moesin (ERM) binding phosphoprotein of 50 kDa (EBP50) from mouse tissues, human T84 and Calu3 cells as well as recombinant human protein.

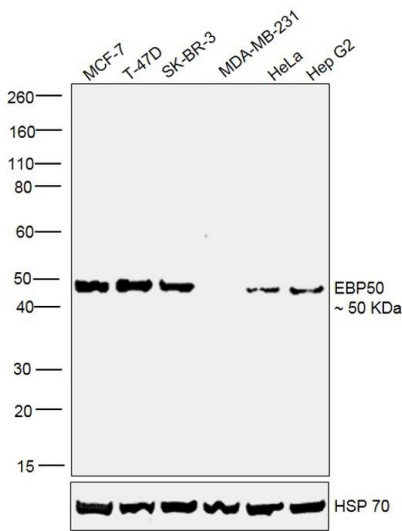
PA1-090 has been successfully used in Western blot, Immunohistochemistry, immunofluorescence and immunoprecipitation procedures. By Western blot, this antibody detects an ~50 kDa protein representing EBP50 from T84 cell extract. Immunohistochemical staining of EBP50 in mouse airway results in staining of the epithelium.

The PA1-090 immunogen is recombinant human His-tagged EBP50 obtained from bacteria. All His-tag specific antibody has been removed. This product was epitope affinity purified using a synthetic peptide to residues C R(286) S A S S D T S E E L N S Q D S P(302) of human EBP50.

## Product Images For EBP50 Polyclonal Antibody

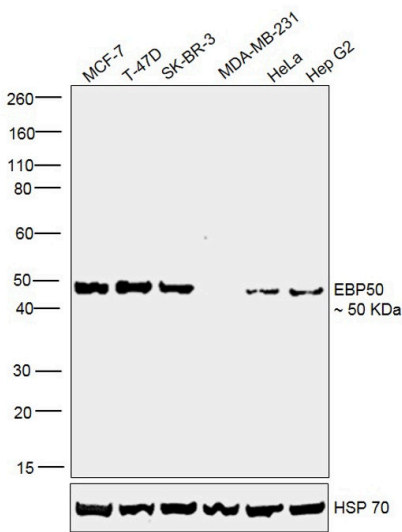
### EBP50 Antibody (PA1-090) in WB

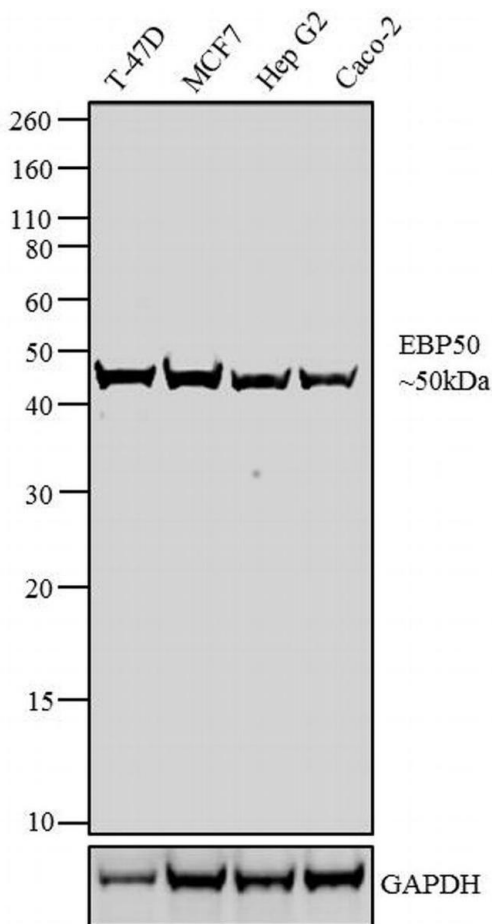
Western blot was performed using Anti-EBP50 Polyclonal Antibody (Product # PA1-090) and a 50 kDa band corresponding to EBP50 was observed across cell lines tested except MDA-MB-231 which is reported to be negative. Membrane enriched extracts (30 µg lysate) of MCF-7 (Lane 1), T-47D (Lane 2), SK-BR-3 (Lane 3), MDA-MB-231 (Lane 4), HeLa (Lane 5) and Hep G2 (Lane 6), were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). 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 (0.2 µg/mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



### EBP50 Antibody (PA1-090)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell lines tested owing to their inherent genetic constitution. Relative expression of EBP50 was observed in MCF-7, SK-BR-3 and T-47D in higher levels in comparison to MDA-MB-231 in low levels using Anti-EBP50 Polyclonal Antibody (Product # PA1-090) in Western Blot. (doi: <https://doi.org/10.3892/or.2017.5649>). {RE}





#### EBP50 Antibody (PA1-090) in WB

Western blot analysis was performed on whole cell extracts of T-47D (Lane 1), MCF7 (Lane 2), HepG2 (Lane 3) and Caco-2 (Lane 4). The blots were probed with Anti-EBP50 Rabbit polyclonal Antibody (Product # PA1-090, 1 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A ~50 kDa band corresponding to EBP50 was observed across all 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 using iBind™ Flex Western Starter Kit (Product # SLF2000S). Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

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Western Blot (12)

<p>Communications biology</p> <p><b>A3/A1-crystallin regulates apical polarity and EGFR endocytosis in retinal pigmented epithelial cells.</b></p> <p>"Published figure using EBP50 polyclonal antibody (Product # PA1-090) in Immunohistochemistry"</p> <p>Authors: Shang P,Stepicheva N,Teel K,McCauley A,Fitting CS,Hose S,Grebe R,Yazdankhah M,Ghosh S,Liu H, Strizhakova A,Weiss J,Bhutto IA,Lutty GA,Jayagopal A,Qian J,Sahel JA,Samuel Zigler J,Handa JT,Sergeev Y,Rajala RVS,Watkins S,Sinha D</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:200</p>
<p>Glia</p> <p><b>Loss-of-function of EBP50 is a new cause of hereditary peripheral neuropathy: EBP50 functions in peripheral nerve system.</b></p> <p>"PA1-090 was used in Western Blotting to show for the first time that loss of function due to EBP50 gene deficiency or mutation can cause peripheral neuropathy."</p> <p>Authors: Song GJ,Gupta DP,Rahman MH,Park HT,AI Ghoulch I,Bisello A,Lee MG,Park JY,Park HH,Jun JH,Chung KW, Choi BO,Suk K</p>	<p>Year 2020</p> <p>Species Mouse</p> <p>Dilution 1:1000</p>

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Immunohistochemistry (17)

<p>Cell</p> <p><b>SARS-CoV-2 replication in airway epithelia requires motile cilia and microvillar reprogramming.</b></p> <p>"PA1-090 was used in Immunohistochemistry to suggest that motile cilia, microvilli, and mucociliary-dependent mucus flow are critical for efficient virus replication in nasal epithelia."</p> <p>Authors: Wu CT,Lidsky PV,Xiao Y,Cheng R,Lee IT,Nakayama T,Jiang S,He W,Demeter J,Knight MG,Turn RE,Rojas-Hernandez LS,Ye C,Chiem K,Shon J,Martinez-Sobrido L,Bertozzi CR,Nolan GP,Nayak JV,Milla C,Andino R,Jackson PK</p>	<p>Year 2023</p> <p>Species Mouse</p> <p>Dilution 1:600</p>
<p>Communications biology</p> <p><b>A3/A1-crystallin regulates apical polarity and EGFR endocytosis in retinal pigmented epithelial cells.</b></p> <p>"Published figure using EBP50 polyclonal antibody (Product # PA1-090) in Immunohistochemistry"</p> <p>Authors: Shang P,Stepicheva N,Teel K,McCauley A,Fitting CS,Hose S,Grebe R,Yazdankhah M,Ghosh S,Liu H, Strizhakova A,Weiss J,Bhutto IA,Lutty GA,Jayagopal A,Qian J,Sahel JA,Samuel Zigler J,Handa JT,Sergeev Y,Rajala RVS,Watkins S,Sinha D</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:200</p>

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- IHC (P) (6)
- ICC/IF (4)
- IP (1)

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