

# EBP50 Polyclonal Antibody

## Product Details

Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Dog, Rat, Human, Mouse
Host/Isotope	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	Published
Western Blot (WB)	✓	1 µg/mL	9 Publications
Immunofluorescence (IF)	✓	2 µg/mL	4 Publications
Immunohistochemistry (IHC)	-		17 Publications
Immunohistochemistry (Paraffin) (IHC (P))	✓	10 µg/mL	6 Publications
Immunocytochemistry (ICC)	✓	2 µg/mL	4 Publications
Immunoprecipitation (IP)	✓	Assay dependent	

## 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 IF

Immunofluorescent analysis of EBP50 was performed using 70% confluent log phase T-47D cells. 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 EBP50 Rabbit Polyclonal Antibody (Product # PA1-090) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) 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 Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.

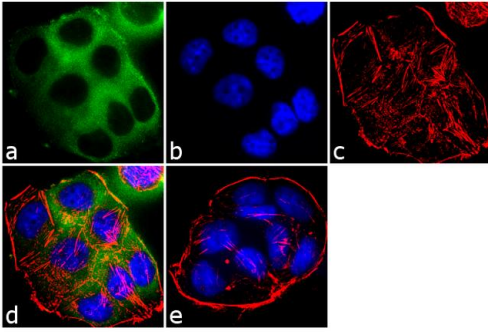
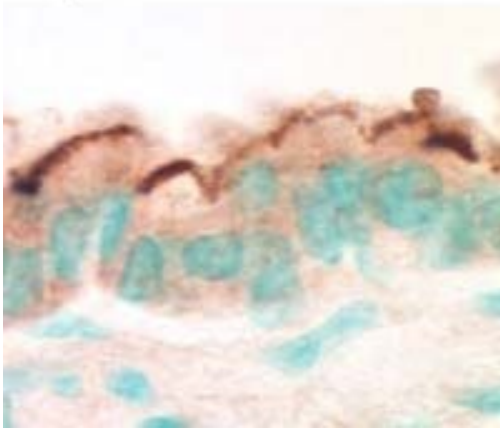
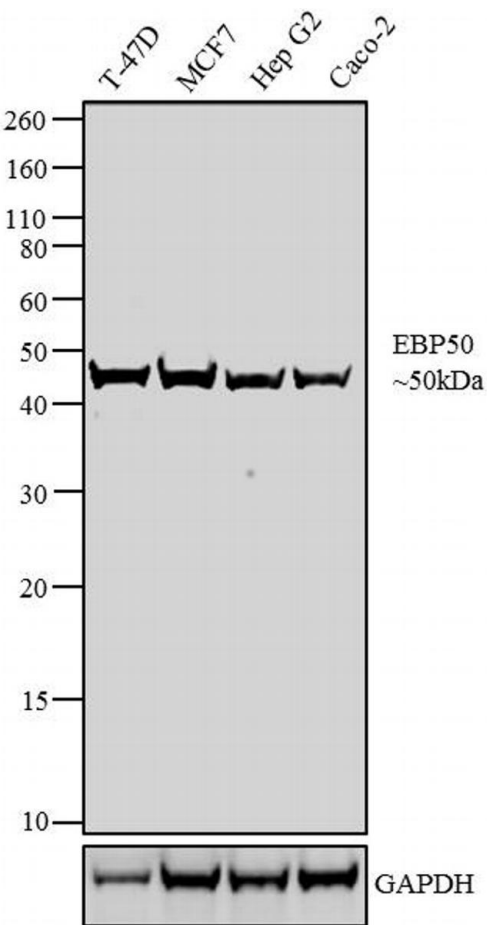


Fig. 1

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

Immunohistochemical staining of EBP50 in mouse airway using Product # PA1-090.





### 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  $\mu$ g/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4  $\mu$ g/mL, 1:2500 dilution). A ~ 50 kDa band corresponding to EBP50 was observed across 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).

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

## 40 References

### Western Blot (9)

International journal of oncology

#### Establishment of three novel cell lines derived from African American patients with colorectal carcinoma: A unique tool for assessing racial health disparity.

"Published figure using EBP50 polyclonal antibody (Product # PA1-090) in Western Blot"

Authors: Paredes J, Ji P, Lacombe JF, Shroyer KR, Martello LA, Williams JL

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

Oncogene

#### PTEN, NHERF1 and PHLPP form a tumor suppressor network that is disabled in glioblastoma.

"PA1-090 was used in western blot to study the regulation of phosphatidylinositol-3-OH kinase-Akt pathway in glioblastoma"

Authors: Molina JR, Agarwal NK, Morales FC, Hayashi Y, Aldape KD, Cote G, Georgescu MM

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2012

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

### Immunofluorescence (4)

Journal of experimental and clinical cancer research : CR

#### NHERF1 and tumor microenvironment: a new scene in invasive breast carcinoma.

Authors: Saponaro C, Vaghegini A, Scarpi E, Centonze M, Catacchio I, Popescu O, Pastena MI, Giotta F, Silvestris N, Mangia A

**Species**  
Human

**Dilution**  
Not Cited

**Year**  
2018

Neoplasia (New York, N.Y.)

#### NHERF1/EBP50 Suppresses Wnt--Catenin Pathway-Driven Intestinal Neoplasia.

"PA1-090 was used in immunohistochemistry - paraffin section explore the role of NHERF1 in intestinal adenoma development"

Authors: Georgescu MM, Gagea M, Cote G

**Species**  
Mouse

**Dilution**  
1:3200

**Year**  
2016

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

### More applications with references on thermofisher.com

IHC (17)

IHC (P) (6)

ICC (4)

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