

Product Datasheet

EPLIN Antibody - BSA Free

NB100-2305

Unit Size: 100 ul

Store at 4C. Do not freeze.

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EPLIN Antibody - BSA Free

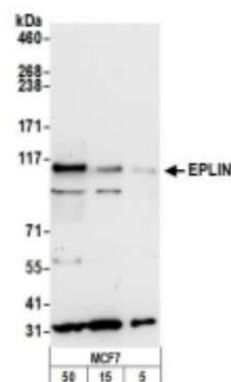
Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description	
Host	Rabbit
Gene ID	51474
Gene Symbol	LIMA1
Species	Human, Rat
Reactivity Notes	Use in Rat reported in scientific literature (PMID:32121325).
Immunogen	The immunogen recognized by this antibody maps to a region between residues 700 and the C-terminus (residue 759) of human epithelial protein lost in neoplasm beta using the numbering given in entry NP_057441.1 (GeneID 51474)

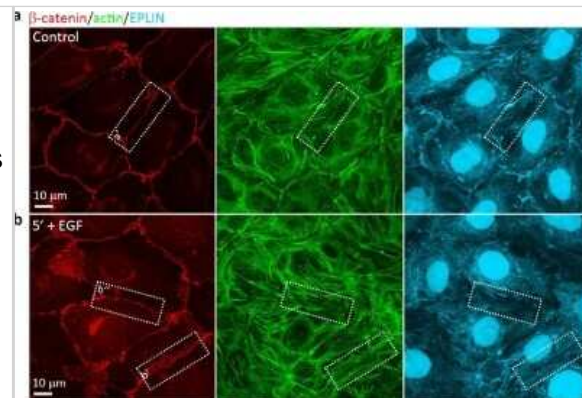
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000 - 1:5000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 2-10 ug/mg lysate
Application Notes	IHC reactivity reported in (PMID: 21625216).

Images

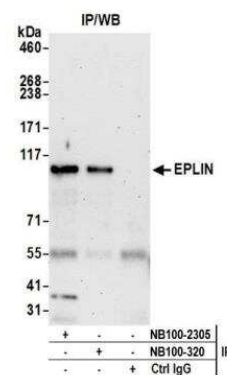
Western Blot: EPLIN Antibody [NB100-2305] - Whole cell lysate from MCF7 (5, 15 and 50 ug) cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-EPLIN antibody used for WB at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



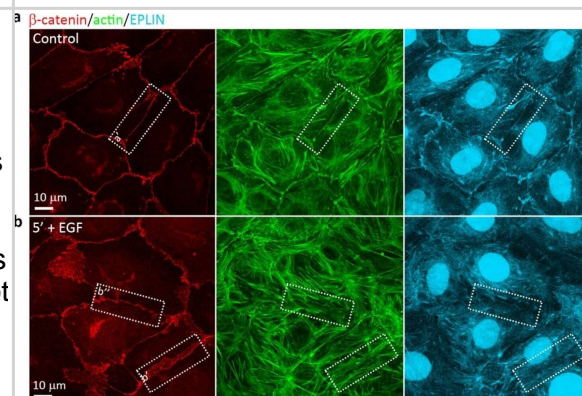
Immunocytochemistry/Immunofluorescence: EPLIN Antibody [NB100-2305] - Effects of EGF on EPLIN in IAR-20 cells. (a), (a') In control IAR-20 cells, EPLIN colocalizes with the circumferential actin bundles at cell-cell boundaries. (b) Addition of EGF leads to release of EPLIN from the zones of disorganization or disappearance of the circumferential bundles (Figure 8b',b''). EPLIN colocalizes with the remaining intact circumferential bundle (Figure 8b'', asterisk). Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/2073-4409/9/3/578>), licensed under a CC-BY license.



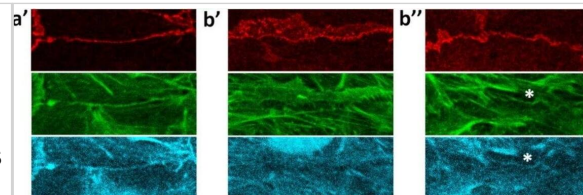
Immunoprecipitation: EPLIN Antibody [NB100-2305] - Detection of human EPLIN by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from MCF-7 cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-EPLIN antibody NB100-2305 (lot NB100-2305-4) used for IP at 6 μg per reaction. EPLIN was also immunoprecipitated by rabbit anti-EPLIN antibody NB100-320. For blotting immunoprecipitated EPLIN, NB100-2305 was used at 1 μg/ml. Detection: Chemiluminescence with an exposure time of 75 seconds.



Immunocytochemistry/ Immunofluorescence: EPLIN Antibody [NB100-2305] - Effects of EGF on EPLIN in IAR-20 cells. (a), (a') In control IAR-20 cells, EPLIN colocalizes with the circumferential actin bundles at cell-cell boundaries. (b) Addition of EGF leads to release of EPLIN from the zones of disorganization or disappearance of the circumferential bundles (Figure 8b',b''). EPLIN colocalizes with the remaining intact circumferential bundle (Figure 8b'', asterisk). (c) EPLIN fluorescence intensity at the cell-cell boundaries in control & EGF-treated cells. Circles & squares represent individual cells, N = 35, * p < 0.001. (d) Western blot analysis of EPLIN phosphorylation (5% PAAG). Arrows indicate up-shifted bands of phosphorylated EPLIN in the cells treated with EGF. β-actin was used as loading control. Densitometry results are averaged across three independent experiments. Data are presented as mean ± SEM. (e) MEK inhibitor CI-1040 (4 μM), which inhibits phosphorylation of ERK (p-ERK), significantly decreases the levels of phosphorylated EPLIN at 10 min & 15 min after the addition of EGF. α-tubulin was used as a loading control. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32121325>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: EPLIN Antibody [NB100-2305] - Effects of EGF on EPLIN in IAR-20 cells. (a), (a') In control IAR-20 cells, EPLIN colocalizes with the circumferential actin bundles at cell-cell boundaries. (b) Addition of EGF leads to release of EPLIN from the zones of disorganization or disappearance of the circumferential bundles (Figure 8b',b''). EPLIN colocalizes with the remaining intact circumferential bundle (Figure 8b'', asterisk). (c) EPLIN fluorescence intensity at the cell-cell boundaries in control & EGF-treated cells. Circles & squares represent individual cells, N = 35, * p < 0.001. (d) Western blot analysis of EPLIN phosphorylation (5% PAAG). Arrows indicate up-shifted bands of phosphorylated EPLIN in the cells treated with EGF. β -actin was used as loading control. Densitometry results are averaged across three independent experiments. Data are presented as mean \pm SEM. (e) MEK inhibitor CI-1040 (4 μ M), which inhibits phosphorylation of ERK (p-ERK), significantly decreases the levels of phosphorylated EPLIN at 10 min & 15 min after the addition of EGF. α -tubulin was used as a loading control. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32121325>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Li X, Gera L, Zhang S et al. Pharmacological inhibition of noncanonical EED-EZH2 signaling overcomes chemoresistance in prostate cancer *Theranostics* 2021-05-08 [PMID: 34093859]

Miyazaki S, Funamoto T, Sekimoto T et al. EPLIN beta Is Involved in the Assembly of Cadherin-catenin Complexes in Osteoblasts and Affects Bone Formation *ACTA HISTOCHEMICA ET CYTOCHEMICA* 2022-06-29 [PMID: 35821749] (WB, Mouse)

Zhitnyak I Y, Rubtsova S N et al. Early Events in Actin Cytoskeleton Dynamics and E-Cadherin-Mediated Cell-Cell Adhesion during Epithelial-Mesenchymal Transition. *Cells* 2020-02-29 [PMID: 32121325] (ICC/IF, Rat)

Han MY, Kosako H, Watanabe T et al. Extracellular signal-regulated kinase/mitogen-activated protein kinase regulates actin organization and cell motility by phosphorylating the actin cross-linking protein EPLIN. *Mol Cell Biol* 2007-12-01 [PMID: 17875928]

Zhang S, Wang X, Iqbal S et al. Epidermal growth factor promotes protein degradation of epithelial protein lost in neoplasm (EPLIN), a putative metastasis suppressor, during epithelial-mesenchymal transition *J Biol Chem* 2012-11-27 [PMID: 23188829] (WB, Human)

Zhang S, Wang X, Osunkoya AO et al. EPLIN downregulation promotes epithelial-mesenchymal transition in prostate cancer cells and correlates with clinical lymph node metastasis *Oncogene* 2011-12-15 [PMID: 21625216] (IF/IHC, Human)

Khositseth S, Pisitkun T, Slentz DH et al. Quantitative protein and mRNA profiling shows selective post-transcriptional control of protein expression by vasopressin in kidney cells. *Mol. Cell Proteomics*. 10(1):M110.004036. 2011-01-01 [PMID: 20940332]



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Products Related to NB100-2305

NBL1-12533	EPLIN Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

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