

Human EGF Recombinant Protein

Product Details	
Size	100 µg
Species	Human
Published Species	Human
Expression System	E. coli
Molecular weight	6.2 kDa
Class	Recombinant
Type	Protein
Purity	>95% by SDS-PAGE
Endotoxin concentration	<0.1 ng/µg
Activity	ED50 < 0.4 ng/mL; determined by the dose-dependent proliferation of mouse BALB/3T3 cells.
Conjugate	Unconjugated
Form	Lyophilized
Purification	sequential chromatography
Contains	no preservative
Storage conditions	4° C

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	-
Immunohistochemistry (IHC)	Assay-dependent	-
ELISA (ELISA)	Assay-dependent	-
Functional Assay (FN)	Assay-dependent	5 Publications
Control (Ctrl)	Assay-dependent	-

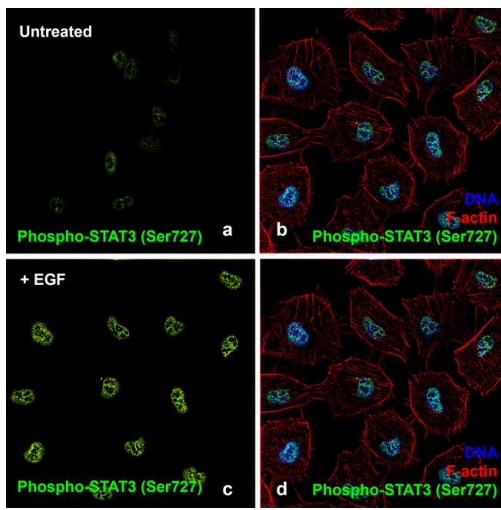
Product Specific Information

Carrier-Free

Reconstitution: Centrifuge the vial briefly before opening to bring the contents to the bottom. Reconstitute the lyophilized protein in sterile, PBS buffer to a concentration of 0.1-1.0 mg/mL. Make any further dilutions of the reconstituted protein in low endotoxin medium, or a buffered solution containing a carrier protein such as heat inactivated FCS or tissue culture grade BSA

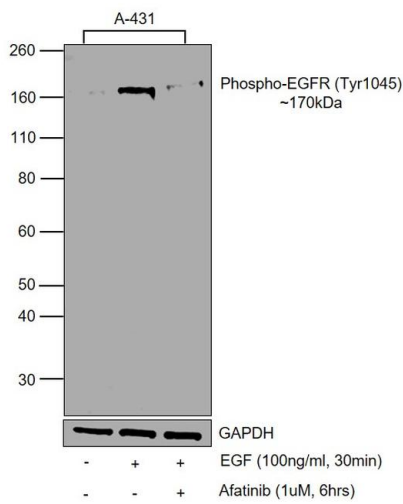
Storage: Store the lyophilized protein at 2°C to 8°C, preferably desiccated. Upon reconstitution, apportion into working aliquots and store at -20°C. Avoid repeated freeze-thaw cycles.

Product Images For Human EGF Recombinant Protein



Human EGF Protein (PHG0311) in FN

Immunofluorescence analysis of signal transducer and activator of transcription 3 (STAT3) was performed using A549 cells treated with 100 ng/mL human EGF recombinant protein (Product # PHG0311) for 30 minutes. The cells were labeled with phospho-STAT3 (Ser727) recombinant rabbit monoclonal antibody (Product # MA5-33199) (Panel a & c; Green). The composite (b & d) represents the merged with DAPI (blue) and F-actin (red) staining. Cells treated with EGF displayed upregulated phospho-STAT3 (Ser727) in comparison with untreated cells. The images were captured at 60X magnification.

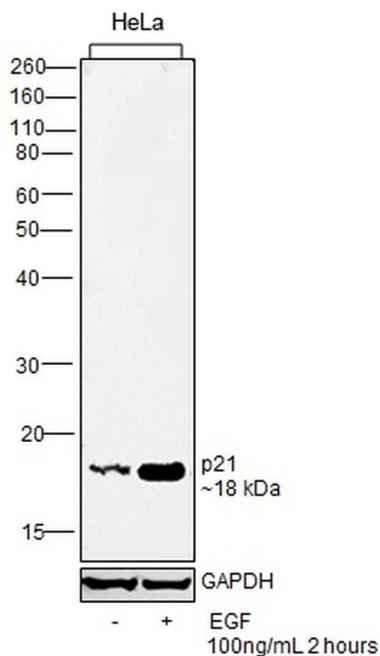


Human EGF Protein (PHG0311) in FN

A-431 cells were treated with 100 ng/mL human EGF recombinant protein (Product # PHG0311) for 30 minutes. A western blot was performed using anti-phospho-EGFR (Tyr1045) polyclonal antibody (Product # PA5-97413) and a 170 kDa band corresponding to phospho-EGFR (Tyr1045) was observed to be upregulated upon EGF treatment. GAPDH was used as a loading control.

Human EGF Protein (PHG0311) in FN

HeLa cells were treated with 100 ng/mL human EGF recombinant protein (Product # PHG0311) for 2 hours. A western blot was performed using anti-p21 monoclonal antibody (GT8611) (Product # MA5-31480) and an 18 kDa band corresponding to p21 (Cyclin-dependent kinase inhibitor 1) was observed to be upregulated upon treatment. GAPDH was used as a loading control.



5 References

Functional Assay (5)

The international journal of biochemistry & cell biology

TRPM2-AS promotes cancer cell proliferation through control of TAF15.

Authors: Pan L, Li Y, Jin L, Li J, Xu A

Species
Human

Dilution
20 ng/mL

Year
2020

Inflammatory bowel diseases

The JAK-Inhibitor Tofacitinib Rescues Human Intestinal Epithelial Cells and Colonoids from Cytokine-Induced Barrier Dysfunction.

Authors: Sayoc-Becerra A, Krishnan M, Fan S, Jimenez J, Hernandez R, Gibson K, Preciado R, Butt G, McCole DF

Species
Human

Dilution
50 ng/mL

Year
2020

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More applications with references on thermofisher.com

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