EGF Monoclonal Antibody (1H11)

Product Details	
Size	200 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	1H11
Conjugate	Unconjugated
Immunogen	Recombinant Human EGF
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	no preservative
Storage conditions	-20°C
RRID	AB_2536656

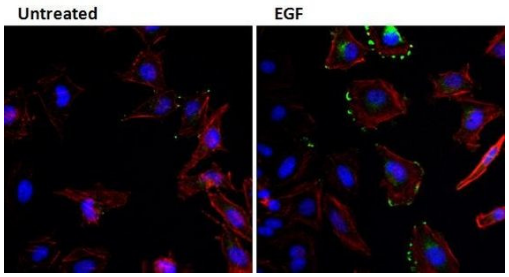
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:5,000	-
Immunocytochemistry (ICC/IF)	1:50	-
ELISA (ELISA)	1-3 µg/mL	-
Dot blot (DB)	-	1 Publication

Product Specific Information

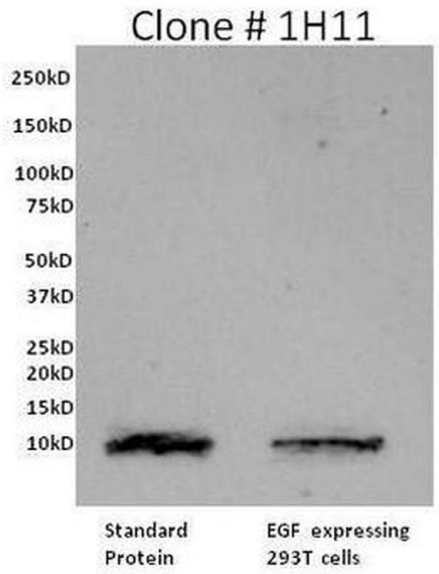
The M805 anti-EGF antibody (Clone 1H11) has successfully been paired as the coating antibody in a sandwich ELISA with detection antibody M806B (biotinylated conjugate of Clone 3A8).

Typical dilutions for sandwich ELISA include 1-3 µgs/mL for coating and 0.125-0.5 µg/mL for detection.

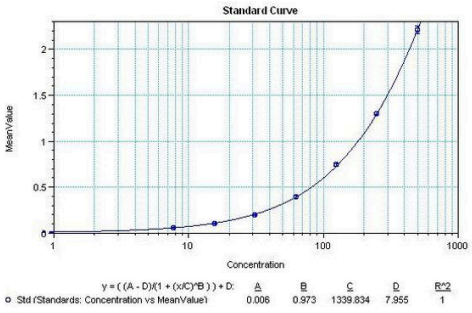
Product Images For EGF Monoclonal Antibody (1H11)



EGF Antibody (M805) in ICC/IF
Immunofluorescent analysis of EGF (green) in HeLa cells either left untreated (left panel) or treated with 10 ng/mL EGF (right panel) for 5 minutes. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA (Product # 37525) for 15 minutes at room temperature. Cells were probed with an EGF monoclonal antibody (Product # M805) at a dilution of 1:50 for at least 1 hour at room temperature, washed with PBS, and incubated with DyLight 488 goat anti-mouse IgG secondary antibody (Product # 35502) at a dilution of 1:400 for 30 minutes at room temperature. F-Actin (red) was stained with DyLight 554 Phalloidin (Product # 21834) and nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ArrayScan at 20X magnification.



EGF Antibody (M805) in WB
Western blot analysis of Human EGF was performed by loading 2 µg of recombinant human EGF (Lane 1) or supernatant from an EGF expression clone transfected in 293T cells onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% Milk/TBST for at least 1 hour. Membranes were probed with an EGF monoclonal antibody recognizing Human EGF (Product # M805) at a dilution of 1:5000 overnight at 4° C on a rocking platform. Membranes were washed in TBS-0.1%Tween 20 and probed with a goat anti-mouse-HRP secondary antibody (Product # 31430) at a dilution of 1:10,000 for at least one hour. Membranes were washed and chemiluminescent detection performed using Super Signal West Dura (Product # 34075).



EGF Antibody (M805) in ELISA
Sandwich ELISA analysis of Human EGF was performed using the Thermo Scientific ELISA Kit (Product # EHEGF) by coating a blank 96-well microtiter plate with 100 µL per well of Human EGF moncolonal antibody (Product # M805) in duplicate at 1, 3, 4, 5, 7, and 9 µg/mL in DPBS (Product # 28374) and incubating for 12-18 hours at 4C. The plate was aspirated and blocked with 300 µL per well of 4% BSA and 5% sucrose in DPBS for 1 hour at room temperature. Human EGF recombinant protein at 50 µL per well was added in duplicate at 500, 250, 125, 62.5, 31.25, 15.625, 7.8125 and 0 pg/mL for 2 hours at room temperature along with 50 µL of Human EGF biotinylated monoclonal antibody (Product # M806B) in all applicable wells at 0.2 µg/mL for 2 hours at room temperature. The plate was washed with ELISA Wash Buffer (Product # N503) and incubated with 100 µL per well of Streptavidin-HRP (Product # N504) in all test wells at 1:130,000 dilution for 1 hour at room temperature and then washed and incubated with 100 µL per well of TMB substrate (Product # 34028) for 30 minutes at room temperature in the dark. The plate was stopped with 0.16M sulfuric acid (Product # N600). Absorbances were read on a spectrophotometer at 450-550 nm.

View more figures on thermofisher.com

1 Reference

Dot blot (1)

International journal of molecular sciences

-Hexachlorocyclohexane Drives Carcinogenesis in the Human Normal Bronchial Epithelium Cell Line BEAS-2B.

"M805 was used in Dot Blot to provide important elements to further characterize -HCH, which appears to be a full-fledged carcinogenic agent."

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Year
2021

Species
Human