

# VEGF Monoclonal Antibody (16F1)

## Product Details

Size	200 µg
Species Reactivity	Human
Published Species	Rat, Mouse
Host/Isotype	Mouse / IgG, kappa
Class	Monoclonal
Type	Antibody
Clone	16F1
Conjugate	Unconjugated
Immunogen	Full-length human recombinant protein expressed in E-coli
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	no preservative
Storage conditions	-20°C
RRID	AB_2536660

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	-
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Immunocytochemistry (ICC/IF)	1:20-1:100	-
ELISA (ELISA)	1 µg/mL	-

## Product Specific Information

The VEGF-A monoclonal antibody clone # 16F1 (Product # M808) has successfully been paired as the coating antibody in a sandwich ELISA with detection antibody P802B (biotinylated conjugate of Product # P802).

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

Product Images For VEGF Monoclonal Antibody (16F1)

VEGF Antibody (M808) in ICC/IF

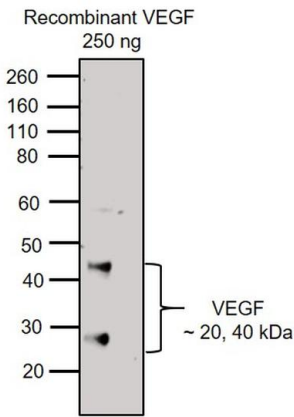
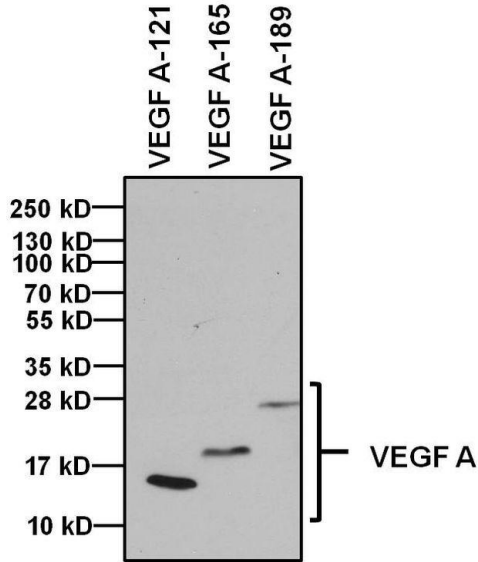
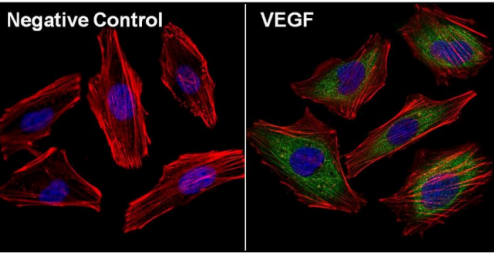
Immunofluorescent analysis of Vascular Endothelial Growth Factor (VEGF, green) in Hela cells. The cells were fixed with 4% paraformaldehyde, permeabilized with 0.1% Triton X-100 in PBS, and blocked with 3% Blocker BSA (Product # 37525) for 30 minutes at room temperature. Cells were stained with (left panel) or without (right panel) a VEGF polyclonal antibody (Product # M808) at a dilution of 1:40 for at least 1 hour at room temperature, and then incubated with a Dylight 488 goat anti-mouse IgG secondary antibody at a dilution of 1:1000 for 45 minutes at room temperature. F-actin (both panels, red) was stained by Dylight 554 Phalloidin (Product # 21834) and nuclei (both panels, blue) were stained with DAPI (Product # 46190). Images were taken at 60X magnification.

VEGF Antibody (M808) in WB

Western blot analysis of Vascular Endothelial Growth Factor (VEGF) was performed by loading 1 µg of indicated recombinant VEGF isoforms, and 10 µL of PageRuler PlusPrestained Protein Ladder (Product # 26619) per well onto a 4-20% Tris-Glycine polyacrylamide gel. Proteins were transferred to a PVDF membrane (Product # 88518) using the G2 Fast Blotter (Product # 62288) and blocked with 5% Milk/TBST for at least 1 hour at room temperature. VEGF was detected at 14 kD, 19 kD and 22-30 kD using a VEGF monoclonal antibody (Product # M808) at a dilution of 1:1000 in blocking buffer overnight at 4C on a rocking platform, followed by an HRP-conjugated goat anti-mouse IgG (Fc) secondary antibody (Product # 31437) at a dilution of 1:20,000 for at least 1 hour. Chemiluminescent detection was performed using SuperSignal West Dura (Product # 34076).

VEGF Antibody (M808) in WB

Western blot was performed using Anti-VEGF Monoclonal Antibody (16F1) (Product # M808) and 20 and 40 kDa bands corresponding to VEGF were observed. Recombinant VEGF protein (250 ng) was electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23002) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1 µg/ml) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Reagent Kit (Product # WP20005).



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Immunohistochemistry (1)

<p>Frontiers in oncology</p> <p><b>Upregulation of OTUD7B (Cezanne) Promotes Tumor Progression via AKT/VEGF Pathway in Lung Squamous Carcinoma and Adenocarcinoma.</b></p> <p>"Published figure using VEGF monoclonal antibody (Product # M808) in Immunohistochemistry"</p> <p>Authors: Lin DD,Shen Y,Qiao S,Liu WW,Zheng L,Wang YN,Cui N,Wang YF,Zhao S,Shi JH</p>	<p>Year</p> <p>2020</p>
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Immunohistochemistry (Paraffin) (2)

<p>Otology &amp; neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology</p> <p><b>Predicting Schwannoma Growth in a Tumor Model Using Targeted Imaging.</b></p> <p>"M808 was used in Immunohistochemistry (Paraffin) to determine if fluorescent imaging with directed immunotargets could be used to predict schwannoma growth rate."</p> <p>Authors: Morrison DR,Sorace AG,Hamilton E,Moore LS,Houson HA,Udayakumar N,Ovatt A,Warram JM,Walsh EM</p>	<p>Year</p> <p>2021</p> <p>Species</p> <p>Mouse</p>
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<p>Respiratory research</p> <p><b>Qi-Long-Tian formula extract alleviates symptoms of acute high-altitude diseases via suppressing the inflammation responses in rat.</b></p> <p>"M808 was used in Immunohistochemistry (Paraffin) to clarify the therapeutic mechanisms of Qi-Long-Tian formula using a rat model in a simulated plateau environment."</p> <p>Authors: Fu X,Yang C,Chen B,Zeng K,Chen S,Fu Y</p>	<p>Year</p> <p>2021</p> <p>Species</p> <p>Rat</p> <p>Dilution</p> <p>1:100</p>
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