

# Goat anti-Rabbit IgG Fc Secondary Antibody, HRP

Product Details	
Size	2 mL
Species Reactivity	Rabbit
Host/Isotope	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	HRP
Form	Lyophilized
Concentration	0.8 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.6, with 15mg/mL BSA
Contains	no preservative
Storage Conditions	4° C
RRID	AB_228333

Applications	Tested	Dilution	Published
Western Blot (WB)	✓	1:10,000-1:200,000	4 Publications
Immunohistochemistry (IHC)	✓	1:500-1:5,000	1 Publication
Immunocytochemistry (ICC)	✓	1:500-1:5,000	

## Product Specific Information

Concentration may vary slightly from lot-to-lot, see lot-specific datasheet for exact concentration.

This antibody has been successfully used in Western blot, and ICC applications.

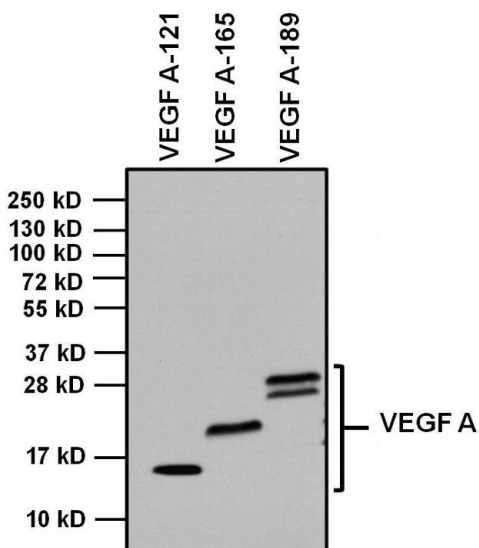
**Antibody Specificity:** This antibody reacts with the heavy chains on rabbit IgG but not with the light chains common to most rabbit immunoglobulins, based on immunoelectrophoresis. No antibody was detected against non-immunoglobulin serum proteins. However, this antibody may cross-react with immunoglobulins from other species.

**Restoration and Storage:** Store product at 2-8°C until opened. After opening, restore with 1.5 mL distilled water (0.8 mg/mL after restoration). Centrifuge product if it is not completely clear after standing for 1-2 hours at room temperature. To judge clarity, draw product into a pasteur pipette. Product may be stored for several weeks at -70°C as an undiluted liquid. After dilution, do not use for more than one day.

To extend the shelf-life of this product, add an equal volume of glycerol to make a final concentration of approximately 50% glycerol and store at -20°C.

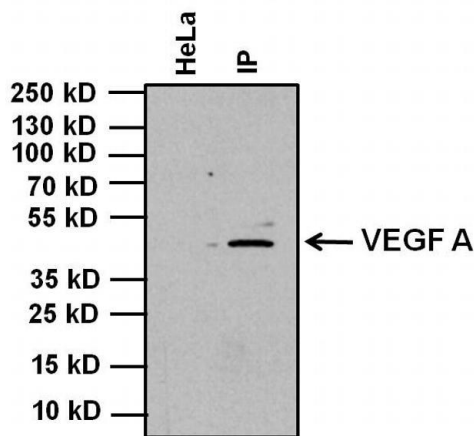
Country of Origin: USA

## Product Images For Goat anti-Rabbit IgG Fc Secondary Antibody, HRP



### Rabbit IgG Fc Secondary Antibody (31463) in WB

Western blot analysis of Vascular Endothelial Growth Factor (VEGF) was performed by loading 1  $\mu$ g of indicated recombinant VEGF isoforms, and 10  $\mu$ L 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 polyclonal antibody (Product # PA5-16754) at a dilution of 1:500 in blocking buffer overnight at 4C on a rocking platform, followed by an HRP-conjugated goat anti-rabbit IgG (Fc) secondary antibody (Product # 31463) at a dilution of 1:20,000 for at least 1 hour. Chemiluminescent detection was performed using SuperSignal West Dura (Product # 34076).



### Rabbit IgG Fc Secondary Antibody (31463) in IP

Immunoprecipitation of Vascular Endothelial Growth Factor (VEGF) was performed on HeLa cell lysate. Antigen-antibody complexes were formed by incubating 750  $\mu$ g of whole cell lysate with 3  $\mu$ g of a VEGF polyclonal antibody (Product # PA5-16754) overnight on a rocking platform at 4C. The immune complexes were captured on 50  $\mu$ L Protein A/G Plus Agarose (Product # 20423), washed extensively, and eluted with Lane Marker Reducing Sample Buffer (Product # 39000). HeLa cell lysate 20  $\mu$ g was loaded as a positive control (left lane). Samples were resolved on a 4-20% Tris-Glycine Polyacrylamide gel, transferred to a Nitrocellulose membrane, and blocked with 5% BSA/TBST for at least 1 hour. The membrane was probed with a VEGF polyclonal antibody (Product # PA5-16754) at a concentration of 1  $\mu$ g/mL in blocking buffer overnight at 4C on a rocking platform, followed by an HRP-conjugated goat anti-rabbit IgG (Fc) secondary antibody (Product # 31463) at a dilution of 1:20,000 for at least 1 hour. Chemiluminescent detection was performed using SuperSignal West Dura (Product # 34076).

## 5 References

### Western Blot (4)

#### Neuroscience letters

#### Prolyl oligopeptidase inhibition attenuates the toxicity of a proteasomal inhibitor, lactacystin, in the alpha-synuclein overexpressing cell culture.

"31463 was used in western blot to test if prolyl oligopeptidase inhibition overcomes the alpha-synuclein aggregation and toxicity induced by lactacystin"

Authors: Myöhänen TT,Norrbacka S,Savolainen MH

**Species**  
Not Applicable

**Dilution**  
1:2000

**Year**  
2017

#### Neurobiology of disease

#### The beneficial effect of a prolyl oligopeptidase inhibitor, KYP-2047, on alpha-synuclein clearance and autophagy in A30P transgenic mouse.

"31463 was used in western blot to study the role of increased autophagy in the mechanism by which a prolyl oligopeptidase inhibitor decreases accumulation of aggregated alpha-synuclein"

Authors: Savolainen MH,Richie CT,Harvey BK,Männistö PT,Maguire-Zeiss KA,Myöhänen TT

**Species**  
Not Applicable

**Dilution**  
1:2000

**Year**  
2014

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

### Immunohistochemistry (1)

#### Reproductive biomedicine online

#### Replacement of sodium with choline in slow-cooling media improves human ovarian tissue cryopreservation.

"31463 was used in immunohistochemistry to study the beneficial effects for ovarian tissue cryopreservation of substituting choline for sodium in slow-cooling media"

Authors: Talevi R,Barbato V,Mollo V,Fiorentino I,De Stefano C,Guarino FM,Gualtieri R

**Species**  
Not Applicable

**Dilution**  
1:5000

**Year**  
2013

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