

# Product Datasheet

## E-Cadherin Antibody (SY0287) NBP3-32290

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP3-32290**

E-Cadherin Antibody (SY0287)

Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	SY0287
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	1*TBS (pH7.4), 0.05% BSA and 40% Glycerol
Target Molecular Weight	97 kDa

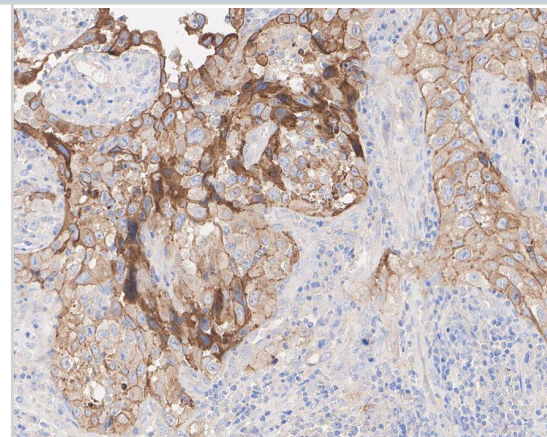
Product Description	
Description	Novus Biologicals Rabbit E-Cadherin Antibody (SY0287) (NBP3-32290) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	999
Gene Symbol	CDH1
Species	Human
Immunogen	Synthetic peptide within human E-Cadherin aa 580-630 (Extracellular). (Uniprot: P12830)

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:5000, Flow Cytometry 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:2000-1:200, Immunoprecipitation Use at an assay dependent concentration, Immunohistochemistry-Paraffin 1:200

**Images**

Immunohistochemistry: E-Cadherin Antibody (SY0287) [NBP3-32290] - Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue with Rabbit anti-E-Cadherin antibody (NBP3-32290) at 1/200 dilution.

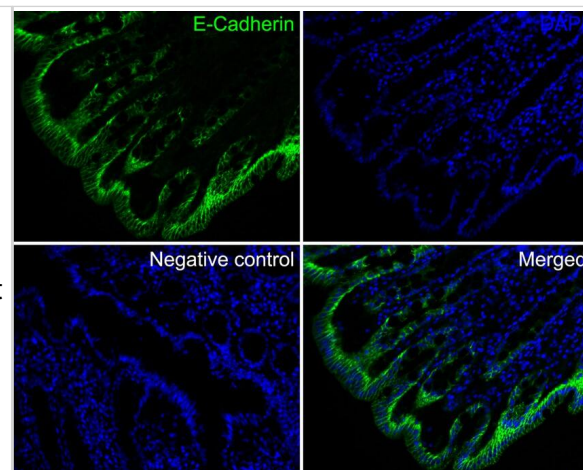
The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (NBP3-32290) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Immunohistochemistry: E-Cadherin Antibody (SY0287) [NBP3-32290]** - Immunofluorescence analysis of paraffin-embedded human colon tissue labeling E-Cadherin with Rabbit anti-E-Cadherin antibody (NBP3-32290) at 1/50 dilution.

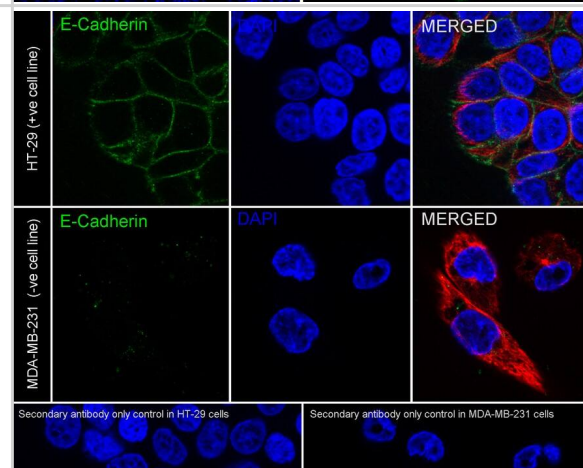
The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (NBP3-32290, green) at 1/50 dilution overnight at 4 °C, washed with PBS.

Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with 33258 (blue).



**Immunocytochemistry/ Immunofluorescence: E-Cadherin Antibody (SY0287) [NBP3-32290]** - Immunocytochemistry analysis of HT-29 (positive) and MDA-MB-231 (negative) cells labeling E-Cadherin with Rabbit anti-E-Cadherin antibody (NBP3-32290) at 1/2,000 dilution.

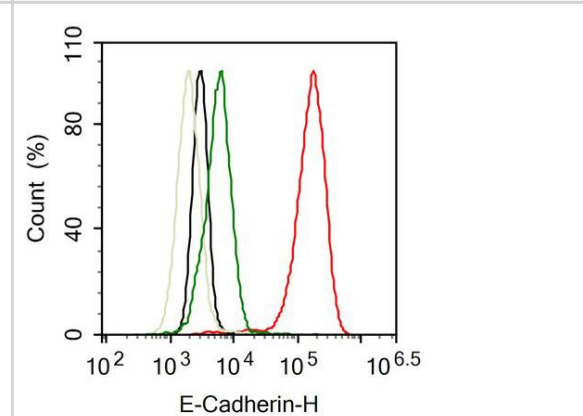
Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-E-Cadherin antibody (NBP3-32290) at 1/2,000 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.



Beta tubulin (red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594) was used as the secondary antibody at 1/1,000 dilution.

**Flow Cytometry: E-Cadherin Antibody (SY0287) [NBP3-32290]** - Flow cytometric analysis of HT-29 (positive, red) and MDA-MB-231 (negative, green) cells labeling E-Cadherin.

Cells were fixed and permeabilized. Then stained with the primary antibody (NBP3-32290, red) at 1/1,000 dilution, compared with Rabbit IgG Isotype Control (HT-29 black, MDA-MB-231 light green). After incubation of the primary antibody at +4°C for an hour, the cells were stained with an iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4°C.



Western Blot: E-Cadherin Antibody (SY0287) [NBP3-32290] - Western blot analysis of E-Cadherin on different lysates with Rabbit anti-E-Cadherin antibody (NBP3-32290) at 1/5,000 dilution.

Lane 1: MCF7 cell lysate

Lane 2: MDA-MB-231 cell lysate (negative)

Lane 3: HT-29 cell lysate

Lane 4: HCT 116 cell lysate

Lane 5: A431 cell lysate

Lane 6: Caco-2 cell lysate

Lysates/proteins at 20 µg/Lane.

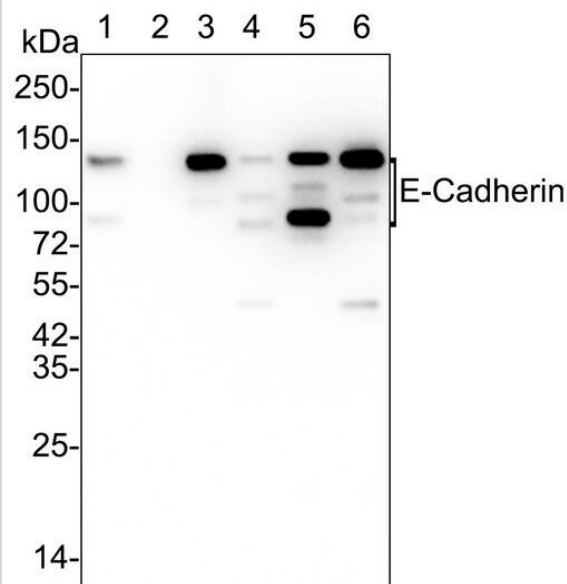
Predicted band size: 97 kDa

Observed band size: 80~120 kDa

Exposure time: 43 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/5,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:50,000 dilution was used for 1 hour at room temperature.





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP3-32290**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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