

Product Datasheet

SPG7 Antibody (OTI1C1)

NBP2-01860

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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NBP2-01860**SPG7 Antibody (OT11C1)**

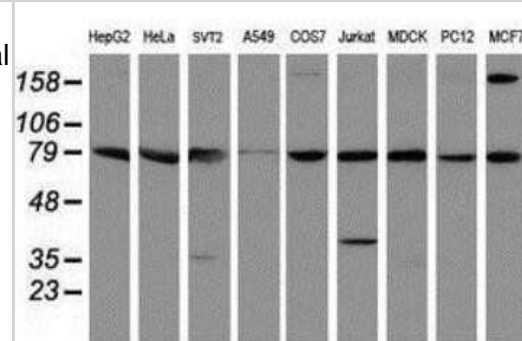
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OT11C1
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.3), 1.0% BSA, 50% Glycerol
Target Molecular Weight	88.1 kDa

Product Description	
Description	Novus Biologicals Mouse SPG7 Antibody (OT11C1) (NBP2-01860) is a monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-SPG7 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	6687
Gene Symbol	SPG7
Species	Human, Mouse, Rat, Canine, Monkey
Reactivity Notes	Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions. Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Immunogen	Human recombinant protein fragment corresponding to amino acids 300-573 of human SPG7(NP_003110) produced in E.coli.

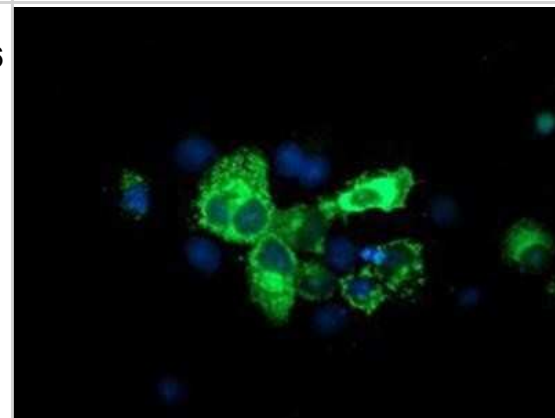
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500 - 2000, Flow Cytometry 1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin
Application Notes	Use in IHC reported in scientific literature (PMID 28131770).

Images

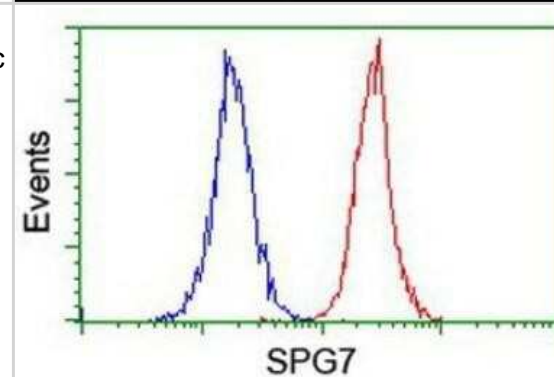
Western Blot: SPG7 Antibody (OT11C1) [NBP2-01860] - Analysis of extracts (35 ug) from 9 different cell lines by using anti-SPG7 monoclonal antibody.



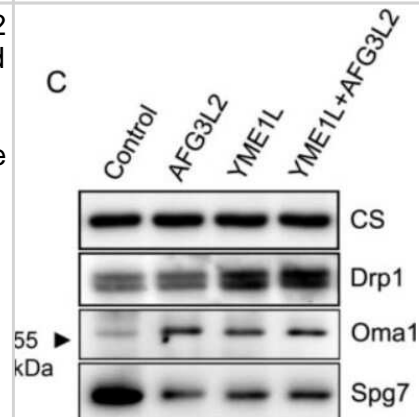
Immunocytochemistry/Immunofluorescence: SPG7 Antibody (OT11C1) [NBP2-01860] - Staining of COS7 cells transiently transfected by pCMV6-ENTRY SPG7.



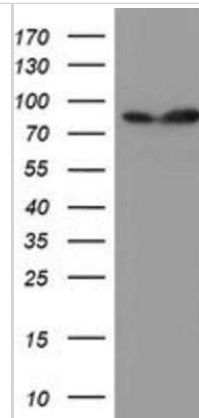
Flow Cytometry: SPG7 Antibody (OT11C1) [NBP2-01860] - Analysis of Jurkat cells, using anti-SPG7 antibody, (Red), compared to a nonspecific negative control antibody (Blue).



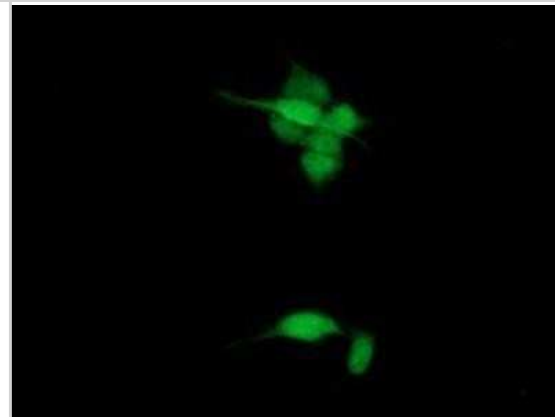
Western Blot: SPG7 Antibody (OT11C1) [NBP2-01860] - Loss of AFG3L2 and/or YME1L is associated with elevated OMA1, diminished SPG7, and a markedly altered pattern of OPA1 protein forms. Whole-cell lysates were resolved using SDS-PAGE and western blotted with antibody to Drp1, Oma1, and Spg7. Image collected and cropped by CiteAb from the following publication (<https://www.mdpi.com/1422-0067/19/12/3930>), licensed under a CC-BY license.



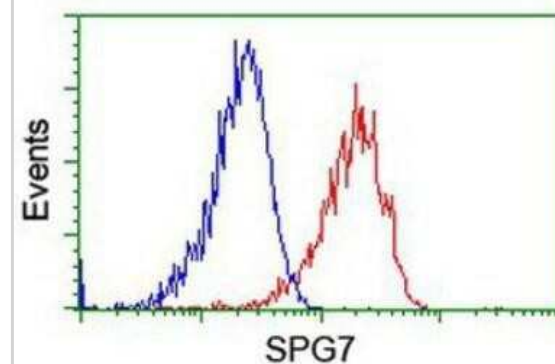
Western Blot: SPG7 Antibody (OT11C1) [NBP2-01860] - HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SPG7 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SPG7.



Immunocytochemistry/Immunofluorescence: SPG7 Antibody (OT11C1) [NBP2-01860] - Immunofluorescent staining of HeLa cells using anti-SPG7 mouse monoclonal antibody.



Flow Cytometry: SPG7 Antibody (OT11C1) [NBP2-01860] - Analysis of HeLa cells, using anti-SPG7 antibody, (Red), compared to a nonspecific negative control antibody (Blue).



Publications

Burska D, Stiburek L, Krizova J et al. Homozygous missense mutation in UQCRC2 associated with severe encephalomyopathy, mitochondrial complex III assembly defect and activation of mitochondrial protein quality control *Biochimica et biophysica acta. Molecular basis of disease* 2021-04-15 [PMID: 33865955]

Cesnekova J, Rodinova M, Hansikova H et al. Loss of Mitochondrial AAA Proteases AFG3L2 and YME1L Impairs Mitochondrial Structure and Respiratory Chain Biogenesis *Int J Mol Sci* 2018-12-07 [PMID: 30544562] (WB, Human)

Kim MK, Lee S, Cho JH et al. Dopamine D3 receptor-modulated neuroprotective effects of lisuride *Neuropharmacology* 2017-01-25 [PMID: 28131770] (IF/IHC, Mouse)



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 NBP2-01860

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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