

# Product Datasheet

## SPG7 Antibody (OTI1C1)

### NBP2-01860

Unit Size: 0.1 ml

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

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**Reviews: 1 Publications: 3**

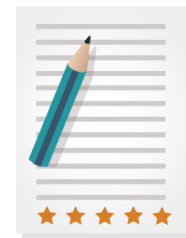
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Updated 10/23/2024 v.20.1

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**NBP2-01860**

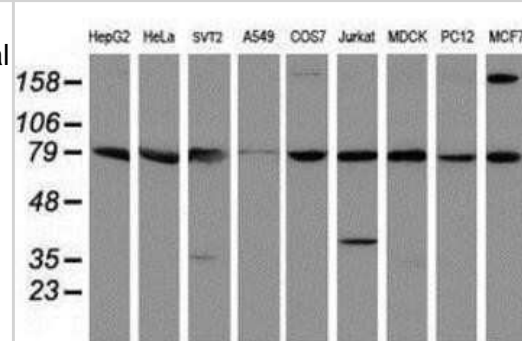
SPG7 Antibody (OT11C1)

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	OT11C1
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.3), 1.0% BSA, 50% Glycerol
<b>Target Molecular Weight</b>	88.1 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	6687
<b>Gene Symbol</b>	SPG7
<b>Species</b>	Human, Mouse, Rat, Canine, Monkey
<b>Reactivity Notes</b>	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.
<b>Immunogen</b>	Human recombinant protein fragment corresponding to amino acids 300-573 of human SPG7(NP_003110) produced in E.coli.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:500 - 2000, Flow Cytometry 1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100
<b>Application Notes</b>	Use in IHC reported in scientific literature (PMID 28131770).

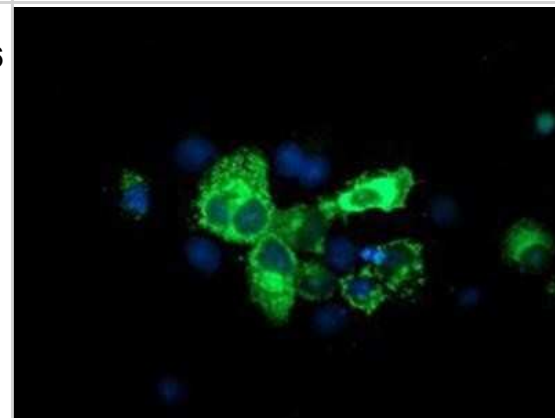


## Images

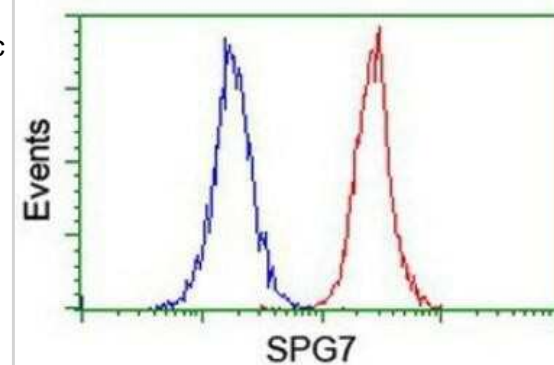
Western Blot: SPG7 Antibody (OT11C1) [NBP2-01860] - Analysis of extracts (35 ug) from 9 different cell lines by using anti-SPG7 monoclonal antibody.



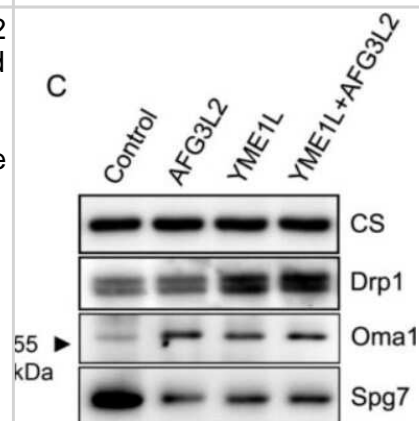
Immunocytochemistry/Immunofluorescence: SPG7 Antibody (OT11C1) [NBP2-01860] - Staining of COS7 cells transiently transfected by pCMV6-ENTRY SPG7.



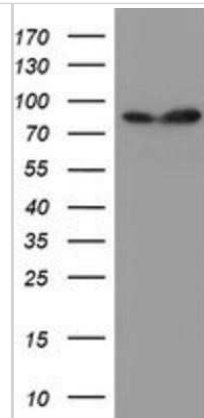
Flow Cytometry: SPG7 Antibody (OT11C1) [NBP2-01860] - Analysis of Jurkat cells, using anti-SPG7 antibody, (Red), compared to a nonspecific negative control antibody (Blue).



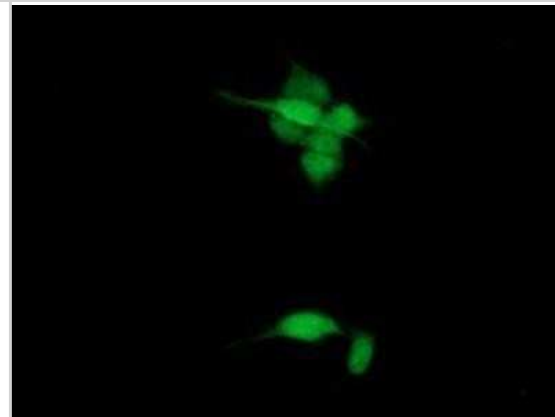
Western Blot: SPG7 Antibody (OT11C1) [NBP2-01860] - Loss of AFG3L2 and/or YME1L is associated with elevated OMA1, diminished SPG7, and a markedly altered pattern of OPA1 protein forms. Whole-cell lysates were resolved using SDS-PAGE and western blotted with antibody to Drp1, Oma1, and Spg7. Image collected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



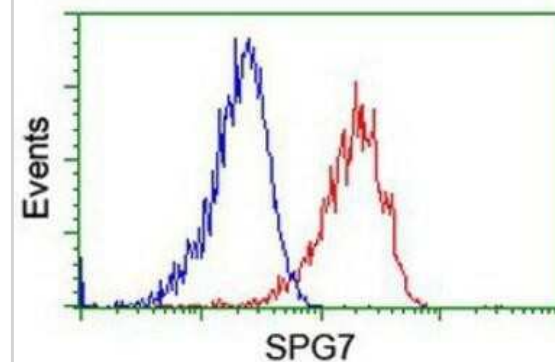
Western Blot: SPG7 Antibody (OT11C1) [NBP2-01860] - HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SPG7 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SPG7.



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)



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### **Products Related to NBP2-01860**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
H00006687-Q01-10ug	Recombinant Human SPG7 GST (N-Term) Protein

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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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