

Optineurin Recombinant Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Protein corresponding to human Optineurin [1) aa26-aa103 2) aa416-aa510]
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2723433

Applications	Tested Dilution	Publications
Western Blot (WB)	1:5,000	-
Immunohistochemistry (Frozen) (IHC (F))	1:250	-
Immunocytochemistry (ICC/IF)	1:500	1 Publication

Product Specific Information

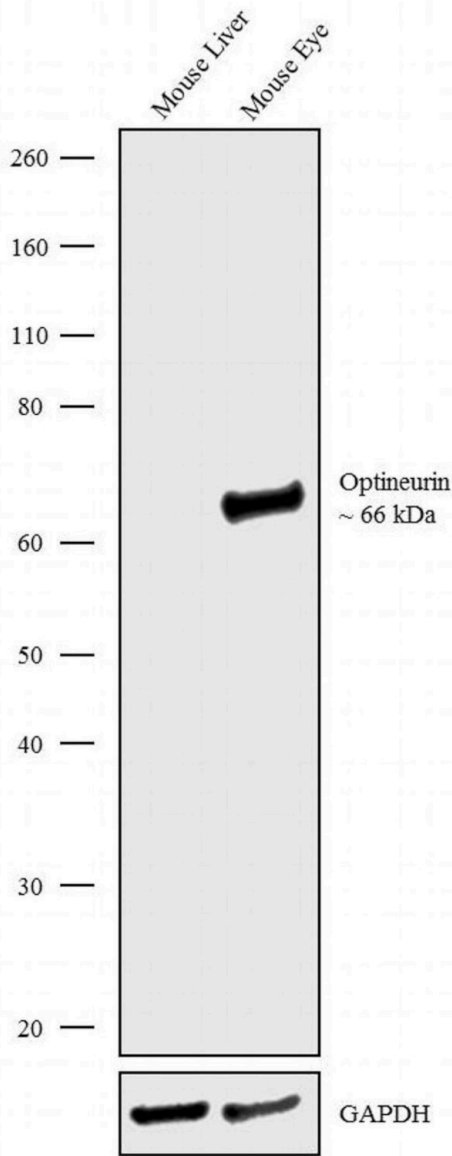
This antibody is predicted to react with Monkey, Horse, Cat.

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For Optineurin Recombinant Polyclonal Antibody

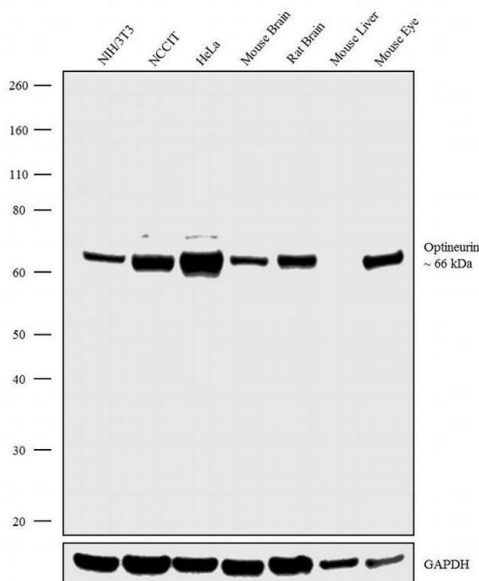
Optineurin Antibody (711879)

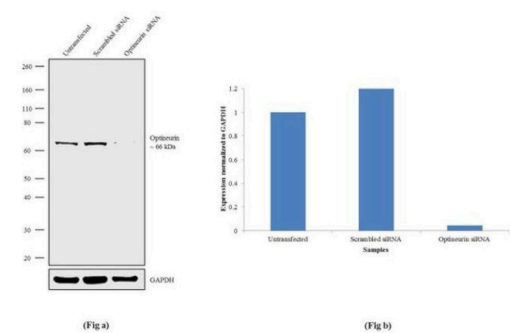
Antibody specificity was demonstrated by detection of differential basal expression of the target across tissue models owing to their inherent genetic constitution. Higher expression of Optineurin was observed specifically in Mouse Eye in comparison to Mouse Liver using Anti-Optineurin Recombinant Rabbit Polyclonal Antibody (Product # 711879) in Western blot. {RE}



Optineurin Antibody (711879) in WB

Western blot analysis was performed on Whole cell extracts (30 µg lysate) of NIH /3T3 (Lane 1), NCCIT (Lane 2), HeLa (Lane 3) and tissue extracts of Mouse Brain (Lane 4), Rat Brain (Lane 5), Mouse Liver (Lane 6) and Mouse Eye (Lane 7). The blots were probed with Anti-Optineurin Recombinant Rabbit Polyclonal Antibody (Product # 711879, 2.5 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 66 kDa band corresponding to Optineurin was observed across the cell lines and relevant tissues tested. Known quantity of protein samples were electrophoresed using Novex®NuPAGE®4-12% Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).





Optineurin Antibody (711879)
 Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. NIH/3T3 cells were transfected with Optineurin siRNA and decrease in signal intensity was observed in Western blot application using Anti-Optineurin Recombinant Rabbit Polyclonal Antibody (Product # 711879). {KD}

View more figures on thermofisher.com

1 Reference

Immunocytochemistry (1)

<p>Autophagy</p> <p>Identification of novel lipid droplet factors that regulate lipophagy and cholesterol efflux in macrophage foam cells.</p> <p>"711879 was used in Immunocytochemistry-immunofluorescence to identify several LD-associated proteins of the lipophagy machinery, a finding with important biological and therapeutic implications."</p> <p>Authors: Robichaud S,Fairman G,Vijithakumar V,Mak E,Cook DP,Pelletier AR,Huard S,Vanderhyden BC,Figeys D, Lavallée-Adam M,Baetz K,Ouimet M</p>	<p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:250</p>
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