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## optineurin (D2L8S) Rabbit mAb



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Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 75	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q96CV9	<b>Entrez-Gene Id:</b> 10133		
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000			
Storage		- Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	Optineurin (D2L8S) rabbit mAb recognizes endogenous levels of total optineurin protein.						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu410 of human optineurin protein.						
Background		Optineurin is a signaling protein involved in maintenance of the Golgi complex, membrane trafficking, NF-κB, and interferon signaling. Mutations in the gene encoding optineurin have been associated with human diseases including glaucoma, Paget disease of bone, and amyotrophic lateral sclerosis (ALS) (1- 2). Optineurin is thought to contribute to these pathologies through regulation of inflammatory signaling, autophagy, and mitophagy (1, 3). The NF-κB-activating kinase/TANK-binding kinase 1 (NAK/TBK1) phosphorylates optineurin at serine 177, regulating optineurin's role in autophagy and mitophagy (4-6). The tumor suppressor HACE1 ubiquitylates optineurin, promoting the interaction of optineurin with the autophagy receptor p62/SQSTM1 (7).						
Background Re	eferences	1. Ying, H. and Yue, B.Y. (2016) <i>Exp Eye Res</i> 144, 73-80. 2. Slowicka, K. et al. (2016) <i>Trends Immunol</i> 37, 621-33. 3. Markovinovic, A. et al. (2017) <i>Prog Neurobiol</i> 154, 1-20. 4. Moore, A.S. and Holzbaur, E.L. (2016) <i>Proc Natl Acad Sci U S A</i> 113, E3349-58. 5. Richter, B. et al. (2016) <i>Proc Natl Acad Sci U S A</i> 113, 4039-44. 6. Heo, J.M. et al. (2015) <i>Mol Cell</i> 60, 7-20. 7. Liu, Z. et al. (2014) <i>Cancer Cell</i> 26, 106-20.						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting						
Cross-Reactivit	су Кеу	H: Human						
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