Revision 1		
PEX5 (D7V4D) Rabbit mAb	Се	ell Signaling
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For Researc	h Use Only	. Not for Use	in Diagnostic	Procedures.

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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #P50542	Entrez-Gene 5830		
Product Usage Information	e	Application 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.			ol and less than			
Specificity/Ser	cificity/Sensitivity PEX		PEX5 (D7V4D) Rabbit mAb recognizes endogenous levels of total PEX5 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe326 of human PEX5 protein.						
Background		Peroxin-5 (PEX5) is the shuttle receptor that delivers proteins to peroxisomes (1). In the cytosol, PEX5 binds to the peroxisomal targeting signal 1 (PTS1), a short peptide sequence present at the extreme termini of newly synthesized peroxisomal matrix proteins. The PEX5-cargo complex interacts with th peroxisomal docking/translocation machinery on the peroxisomal membrane, where the cargo is released into the organelle matrix. During this process, PEX5 is monoubiquitinated at a conserved cysteine residue, and the ubiquitin-PEX5 conjugate is released from the organelle into the cytosol, where PEX5 is deubiquitinated and ready the next round of targeting (2,3).						
Background R	eferences	1. Williams, C.P. and Stanley, W.A. (2010) <i>Int J Biochem Cell Biol</i> 42, 1771-4. 2. Thoms, S. and Erdmann, R. (2006) <i>Biochim Biophys Acta</i> 1763, 1620-8. 3. Francisco, T. et al. (2014) <i>Biochimie</i> 98, 29-35.						
Species Reacti	ivity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot l	Buffer	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-Reactivi	ity Key	H: Human M: Mouse F	: Rat					
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