PEX5 (D7V4D) Rabbit mAb

Store at -20C

#83020

Cell Signaling
T E C H N O L O G Y®

Orders:	**877-616-CELL (2355)**
	orders@cellsignal.com
Support:	**877-678-TECH (8324)**
Web:	**info@cellsignal.com**
	cellsignal.com

3 Trask Lane | **Danvers** | **Massachusetts** | **01923** | **USA**

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	80	Rabbit IgG	#P50542	5830

Product Usage Information

Application	Dilution
Western Blotting	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 / Sensitivity

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 C termini of newly synthesized peroxisomal matrix proteins. The PEX5-cargo complex interacts with the 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 References

1. Williams, C.P. and Stanley, W.A. (2010) *Int J Biochem Cell Biol* 42, 1771-4.
2. Thoms, S. and Erdmann, R. (2006) *Biochim Biophys Acta* 1763, 1620-8.
3. Francisco, T. et al. (2014) *Biochimie* 98, 29-35.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot 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 Key

WB: Western Blotting

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with

other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.

Orders: 877-616-CELL (2355) • **orders@cellsignal.com** • **Support: 877-678-TECH (8324)** • **info@cellsignal.com** • **Web: cellsignal.com**
For Research Use Only. Not for Use in Diagnostic Procedures.