Store at -200

OCRL1 Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 103	Source: Rabbit	UniProt ID: #Q01968	Entrez-Gene Id 4952	
Product Usage Information	Application			Dilution			
	Western Blotting			1:1000			
	Imi	Immunoprecipitation			1:50		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		OCRL1 Antibody recognizes endogenous levels of total OCRL1 protein. This antibody also cross-reacts with a 51 KDa protein of unknown origin in some cell lines.					
			e produced by immunizing animals with a synthetic peptide corresponding to ly88 of human OCRL1 protein. Antibodies are purified by protein A and peptide				
Background	sub tetra syni cata clati staç	OCRL1 is an inositol 5-phosphatase that selectively dephosphorylates the 5 position of the inositol ring. Its substrates include phosphatidylinositol 4,5-bisphosphate, inositol 1,4,5-trisphosphate, and inositol 1,3,4,5-tetrakisphosphate (1). Research studies indicate that mutations in OCRL1 are linked to Oculocerebrorenal syndrome or Lowe syndrome, an X-linked disorder distinguished by mental retardation and congenital cataracts, as well as Dent's disease (2,3). OCRL1 interacts with several endocytic proteins, including clathrin, AP-2, and RabGTPases (4-7). OCRL1 is localized to the Golgi complex, endosomes, and late stage clathrin-coated pits (6,8). OCRL1 controls early endosome function (8), regulating membrane traffic from endosomes to the Golgi. It is also involved in cytokinesis (9) and cilia assembly (10).					
Background Refere	ground References 1. Astle, M.V. et al. (2006) IUBMB Life 58, 451-6.						

2. Attree, O. et al. (1992) Nature 358, 239-42.

3. Hoopes, R.R. et al. (2005) Am J Hum Genet 76, 260-7.

4. Erdmann, K.S. et al. (2007) Dev Cell 13, 377-90.

5. Mao, Y. et al. (2009) EMBO J 28, 1831-42.

6. Shin, H.W. et al. (2005) J Cell Biol 170, 607-18.

7. Hyvola, N. et al. (2006) EMBO J 25, 3750-61.

8. Choudhury, R. et al. (2005) Mol Biol Cell 16, 3467-79.

9. Vicinanza, M. et al. (2011) EMBO J 30, 4970-85.

10. Coon, B.G. et al. (2012) Hum Mol Genet 21, 1835-47.

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

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, **Western Blot Buffer**

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

WB: Western Blotting IP: Immunoprecipitation **Applications Key**

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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

OCRL1 Antibody (#8797) Datasheet Without Images Cell Signaling Technology

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.