

## HRS (D7T5N) Rabbit mAb



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.

<b>Applications:</b> W, IP, IF-IC	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 100	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O14964	<b>Entrez-Gene Id:</b> 9146
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence (I	mmunocytochemistry)		<b>Dilution</b> 1:1000 1:100 1:400
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		HRS (D7T5N) Rabbit mAb recognizes endogenous levels of total HRS protein.			
Species predicte based on 100% s homology		Bovine, Dog			
Source / Purifica	ition	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human HRS protein.			
Background		Hepatocyte growth factor-regulated tyrosine kinase substrate (HRS) is a ubiquitously expressed, multidomain-containing protein that is tyrosine phosphorylated upon activation of multiple receptor tyrosine kinases (1). HRS contains a proline-rich region, which may mediate interactions with SH3 domain-containing proteins (1). Research studies have also demonstrated that HRS possesses a phosphatidylinositol 3-phosphate-binding FYVE-type zinc finger domain and a coiled-coil domain that target it to membranes of the endosomal compartment (2-4). HRS also possesses a ubiquitininteracting motif (UIM) that binds ubiquitinated membrane proteins and, in conjunction with Eps15 and STAM proteins of the ESCRT-0 complex, facilitates their sorting through the endosomal compartment for eventual degradation in the lysosome (5-8). Research studies demonstrate that phosphorylation and ubiquitination of HRS play a role in EGFR intracellular trafficking and degradation (9,10).			
Background Ref	1. Komada, M. and Kitamura, N. (1995) <i>Mol Cell Biol</i> 15, 6213-21. 2. He, J. et al. (2009) <i>Proteins</i> 76, 852-60. 3. Raiborg, C. et al. (2001) <i>J Cell Sci</i> 114, 2255-63. 4. Komada, M. et al. (1997) <i>J Biol Chem</i> 272, 20538-44. 5. Raiborg, C. et al. (2002) <i>Nat Cell Biol</i> 4, 394-8. 6. Hirano, S. et al. (2006) <i>Nat Struct Mol Biol</i> 13, 272-7. 7. Bache, K.G. et al. (2003) <i>J Biol Chem</i> 278, 12513-21. 8. Urbé, S. et al. (2003) <i>J Cell Sci</i> 116, 4169-79. 9. Stern, K.A. et al. (2007) <i>Mol Cell Biol</i> 27, 888-98. 10. Tan, X. et al. (2015) <i>EMBO J</i> 34, 475-90.				

**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  $4^{\circ}$ C with gentle shaking, overnight.

**Applications Key** 

**W:** Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

**Trademarks and Patents** 

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

XP is a registered 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.