Store at -20C

## DPYD (D35A8) Rabbit mAb



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

For Research Use Only. Not for Use in Diagnostic Procedures.							
<b>Applications:</b> WB	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 110	Source/Isotype: Rabbit IgG	UniProt ID: #Q12882	Entrez-Gene Id: 1806	
Product Usage Information	Ар	plication			Dilution		
	We	estern Blotting		1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
Specificity / Sens	DPYD (D35A8) Rabbit mAb detects endogenous levels of total DPYD protein. The antibody also detects a 50-60 kDa band of unknown origin by western blot.						
Species predicted react based on 10 sequence homological contracts and contracts are contracted by the contract of the contrac	00%	use, Rat, Monkey, D	og				
Source / Purificat	<b>Partification</b> Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human DPYD protein.					esponding to	
Background	thyr deri	Dihydropyrimidine dehydrogenase (DPD, DPYD) catalyzes the initial and rate-limiting step in uracil and thymidine catabolism as well as catabolism of the chemotherapeutic drug 5-fluorouracil (5-FU) and its derivatives. DPYD deficiency, which results from mutations in the DPYD gene, causes errors in pyrimidine metabolism and notentially life-threatening side effects in cancer nations treated with 5-FU (reviewed in 1)					

metabolism and potentially life-threatening side effects in cancer patients treated with 5-FU (reviewed in 1). As a result, ongoing work examines whether or how DPYD gene variation and protein expression can be used to predict 5-FU toxicity (1,2). Several genes that impart resistance to 5-FU were recently identified in human hepatocellular carcinoma (HCC). AEG-1, which is highly expressed in HCC, increases the expression of DPYD. DPYD is expressed more highly in HCC than in normal liver, and this is thought to be

one mechanism of 5-FU resistance (3,4).

**Background References** 1. Yen, J.L. and McLeod, H.L. (2007) Eur J Cancer 43, 1011-6.

2. Ofverholm, A. et al. (2010) Clin Biochem 43, 331-4.

3. Yoo, B.K. et al. (2009) Proc Natl Acad Sci U S A 106, 12938-43.

4. Yoo, B.K. et al. (2009) J Clin Invest 119, 465-77.

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

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

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

WB: Western Blotting **Applications Key** 

**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.

DPYD (D35A8) Rabbit mAb (#4654) Datasheet Without Images Cell Signaling Technology

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.