

#14531

Limited Uses

Phospho-DDR1 (Tyr513) (E1N8F) Rabbit mAh



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: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 125	Source/Isotype: Rabbit IgG	UniProt ID: #Q08345	Entrez-Gene Id: 780
Product Usage Information	•	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.				
Specificity/Sensitivity		Phospho-DDR1 (Tyr513) (E1N8F) Rabbit mAb recognizes endogenous levels of DDR1 protein only when phosphorylated at Tyr513.				
Species prediction based on 100% homology	ted to react 6 sequence	Mouse, Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr513 of human DDR1 protein.				
Background		The discoidin domain receptors (DDRs) are receptor tyrosine kinases with a discoidin homology repeat in their extracellular domains, activated by binding to extracellular matrix collagens. So far, two mammalian DDRs have been identified: DDR1 and DDR2 (1). They are widely expressed in human tissues and may have roles in smooth muscle cell-mediated collagen remodeling (2). Research studies have implicated aberrant expression and signaling of DDRs in human diseases related to increased matrix degradation and remodeling, such as cardiovascular disease, liver fibrosis, and tumor invasion (1). Phosphorylation of DDR1 on Tyr513 was identified at Cell Signaling Technology (CST) using PhosphoScan®, a CST™ LC-MS/MS platform for phosphorylation site discovery (3). Additional research looking at DDR1 activation state has identified the same phosphorylation site in DDR1 (4).				
Background References		1. Vogel, W. (1999) <i>FASEB J</i> 13 Suppl, S77-82. 2. Ferri, N. et al. (2004) <i>Am J Pathol</i> 164, 1575-85. 3. Rush, J. et al. (2005) <i>Nat Biotechnol</i> 23, 94-101. 4. Fu, H.L. et al. (2014) <i>J Biol Chem</i> 289, 9275-87.				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
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.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human				
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