#13589 Store at -20C

Phospho-Talin (Ser425) (D2P2M) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 270	Source/Isotype: Rabbit IgG	UniProt ID: #Q9Y490	Entrez-Gene Id 7094	
Product Usage Information	Ар	plication		Dilution			
	We	Western Blotting			1:1000		
	Imr	nunoprecipitation		1:50			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sens	phos	Phospho-Talin (Ser425) (D2P2M) Rabbit mAb recognizes endogenous levels of talin protein only when phosphorylated at Ser425. Based on sequence homology, this antibody is expected to recognize both talin-1 and talin-2 proteins phosphorylated at Ser425.					
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser425 of human talin protein.					
Background	secr extra	Focal adhesions connect the cytoskeleton with the extracellular matrix (ECM), a complex structure of secreted macromolecules that surrounds mammalian organs and tissues. Integrins clustered on the extracellular side of focal adhesions signal from the ECM to intracellular protein complexes, which in turn signal to the actin cytoskeleton to regulate the tension needed for cell motility. Internal signals also					

secreted macromolecules that surrounds mammalian organs and tissues. Integrins clustered on the extracellular side of focal adhesions signal from the ECM to intracellular protein complexes, which in turn signal to the actin cytoskeleton to regulate the tension needed for cell motility. Internal signals also converge on focal adhesions to regulate integrin affinity and avidity. Signaling through focal adhesions regulates cell adhesion, migration, proliferation, apoptosis, and gene expression, and impacts cellular processes such as development, wound healing, immune response, invasion, metastasis, and angiogenesis (reviewed in 1-3). Talin is a large, multidomain focal adhesion protein that interacts with the intracellular domains of integrins and other focal adhesion proteins. Talin is involved in the formation of focal adhesions and in linking focal adhesions to the actin cytoskeleton (4). The interaction between talin and integrins increases the affinity between integrin and both insoluble and soluble ECM proteins (5,6).

Background References

- 1. Burridge, K. et al. (1988) Annu Rev Cell Biol 4, 487-525.
- 2. Calderwood, D.A. et al. (2000) *J Biol Chem* 275, 22607-10.
- 3. ffrench-Constant, C. and Colognato, H. (2004) Trends Cell Biol 14, 678-86.
- 4. Nayal, A. et al. (2004) Curr Opin Cell Biol 16, 94-8.
- 5. Tanentzapf, G. and Brown, N.H. (2006) Nat Cell Biol 8, 601-6.
- 6. Tadokoro, S. et al. (2003) Science 302, 103-6.

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 BSA, 1X TBS,

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

Applications Key WB: Western Blotting IP: Immunoprecipitation

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

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