

SOS1 (D3T7T) Rabbit mAb



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Applications: W, W-S	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 152	Source/Isotype: Rabbit IgG	UniProt ID: #Q07889	Entrez-Gene Id: 6654	
Product Usage Information		Application Western Blotting Simple Western™		Dilution 1:1000 1:10 - 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/Sensitivity		SOS1 (D3T7T) Rabbit mAb recognizes endogenous levels of total SOS1 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro1250 of human SOS1 protein.					
Background		Son of sevenless (SOS) was first identified in <i>Drosophila</i> as a guanine nucleotide exchange factor (GEF) for Ras acting downstream of the Sevenless receptor (1). Two closely related homologs of <i>Drosophila</i> SOS are found in mammalian cells: SOS1 and SOS2 (2). SOS1 consists of histone folds, Dbl (DH) and pleckstrin (PH) homology domains, a Ras exchange motif (REM), and Cdc25 homology and polyproline domains (3). SOS1 binds to GRB2, NCK, and other adaptor proteins, and plays an important role in ERK activation downstream of protein tyrosine kinase receptor (RTK). Research studies have identified mutations in the corresponding SOS1 gene of patients with Noonan syndrome, a developmental disorder characterized by short stature, facial dysmorphia, and congenital heart defects (4,5).					
Background References		1. Rogge, R.D. et al. (1991) <i>Cell</i> 64, 39-48. 2. Nimnual, A. and Bar-Sagi, D. (2002) <i>Sci STKE</i> 2002, pe36. 3. Chardin, P. et al. (1993) <i>Science</i> 260, 1338-43. 4. Tartaglia, M. et al. (2007) <i>Nat Genet</i> 39, 75-9. 5. Roberts, A.E. et al. (2007) <i>Nat Genet</i> 39, 70-4.					
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		W: Western Blotting W-S: Simple Western™					
Cross-Reactivity Key		H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey					
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