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SOS1 Antibody



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Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 152	Source/Isotype: Rabbit	UniProt ID: #Q07889	Entrez-Gene Id: 6654	
Product Usage		Application			Dilution		
Information		Western Blotting Immunoprecipitation			1:1000 1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		SOS1 Antibody detects endogenous levels of total SOS1 protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ile1198 of human SOS1 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
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 Reactiv	rity	Species reactivity is def	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Wostorn Blot B		IMPORTANT: For worte					

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 **IP**: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse

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