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SOS1 Antibody



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Applications: I WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 152	Source: Rabbit	UniProt ID: #Q07889	Entrez-Gene Id: 6654	
Product Usage Information	Application			Dilution			
	We	Western Blotting			1:1000		
	Im	Immunoprecipitation			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 / Sensitiv	/ Sensitivity SOS1 Antibody detects endogenous levels of total SOS1 protein.						
Source / Purification	resi	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	for I are plec don acti mut	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 Referen		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.					

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

3. Chardin, P. et al. (1993) Science 260, 1338-43. 4. Tartaglia, M. et al. (2007) Nat Genet 39, 75-9. 5. Roberts, A.E. et al. (2007) Nat Genet 39, 70-4.

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 IP: Immunoprecipitation **Applications Key**

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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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