9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

30-1360: Anti-Sos Monoclonal Antibody (Clone:SOS-01)

Clonality :	Monoclonal
Clone Name :	SOS-01
Application :	WB, ICC
Reactivity :	Human, Mouse
Gene :	SOS1
Gene ID :	6654
Uniprot ID :	Q07889
Format :	Purified
Alternative Name :	SOS1
Isotype :	Mouse IgG1
Immunogen Information :	Peptide corresponding to amino acids THPSMHRDGPPLLENAHSS of human Sos protein.

Description

The guanine nucleotide exchange factor Sos (Son-of-sevenless) is a complex multidomain protein that activates the small GTPase Ras (H-Ras, K-Ras, N-Ras, but not functionally distinct R-Ras) in response to receptor tyrosine kinase stimulation. Nucleotide exchange activity of Sos is stimulated by allosteric Ras binding. By another (separable) guanine exchange factor domain domain Sos modulates activity of Rac/Rho GTPases. Sos thus integrates signals that affect both gene expression and cytoskeletal reorganization; the Sos-mediated Ras-activation and Rac activation differ in composition and stability of the formed complex.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Western Blotting *Recommended dilution:* 1 Ã□Âµg/ml
Positive control: HeLa human cervix carcinoma cell line
Immunofluoroscence

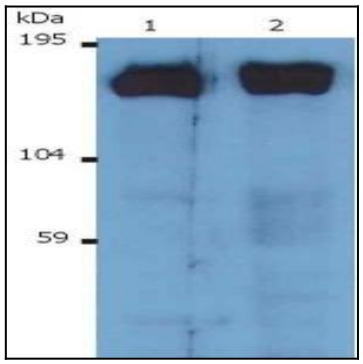

Figure 1: Western Blotting analysis (reducing conditions) of human Sos using anti-Sos (SOS-01). Lane 1: K562 human Caucasian chronic myeloid leukemia cell line Lane 2: RAJI human Burkitt lymphoma cell line

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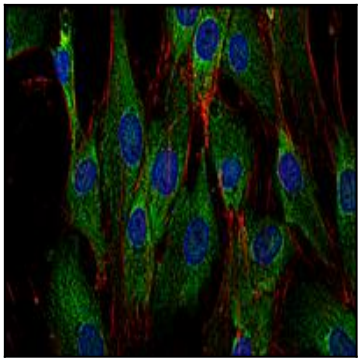

Figure 2: Immunofluorescence staining of Sos in human primary fibroblasts using anti-Sos (SOS-01; green). Actin cytoskeleton was decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).

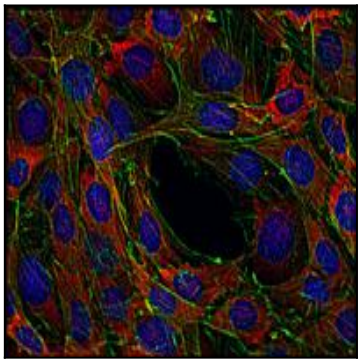

Figure 3: Immunofluorescence staining of Sos in murine transformed fibroblasts using anti-Sos (SOS-01; red). Actin cytoskeleton was decorated by phalloidin (green) and cell nuclei stained with DAPI (blue).