ARG63100
anti-SOS1 antibody [SOS-01]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [SOS-01] recognizes SOS1
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, WB
Specificity	The clone SOS-01 reacts with human SOS1, an ubiquitously expressed 150 kDa intracellular protein.
Host	Mouse
Clonality	Monoclonal
Clone	SOS-01
Isotype	IgG1
Target Name	SOS1
Species	Human
Immunogen	Peptide corresponding to amino acids THPSMHRDGPPLLENAHSS of human SOS1 protein.
Conjugation	Un-conjugated
Alternate Names	GGF1; GF1; SOS-1; GINGF; Son of sevenless homolog 1; HGF; NS4

Application Instructions

Application table

Application	Dilution
ICC/IF	Assay-dependent
WB	1 µg/ml

Application Note: WB: Under reducing condition.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: WB: HeLa

Properties

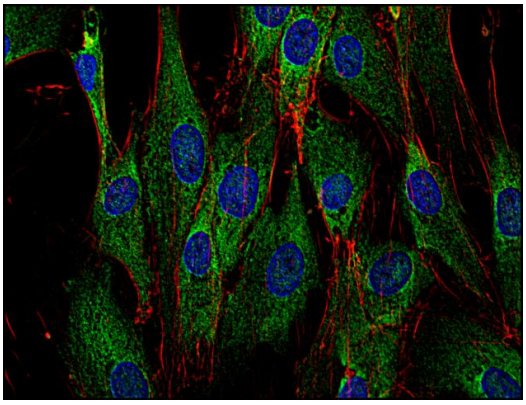
Form	Liquid
Purification	Purified from ascites by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

	freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

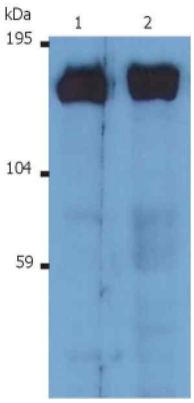
Database links	GeneID: 20662 Mouse GeneID: 6654 Human Swiss-port # Q07889 Human Swiss-port # Q62245 Mouse
Gene Symbol	SOS1
Gene Full Name	son of sevenless homolog 1 (Drosophila)
Background	The guanine nucleotide exchange factor Sos (Son-of-sevenless) is a complex multidomain protein that activates the 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.
Function	Promotes the exchange of Ras-bound GDP by GTP. Catalytic component of a trimeric complex that participates in transduction of signals from Ras to Rac by promoting the Rac-specific guanine nucleotide exchange factor (GEF) activity (By similarity). [UniProt]
Research Area	Cancer antibody; Signaling Transduction antibody
Calculated Mw	152 kDa
PTM	Phosphorylation at Ser-1134 and Ser-1161 by RPS6KA3 create YWHAB and YWHAE binding sites and which contribute to the negative regulation of EGF-induced MAPK1/3 phosphorylation.

Images



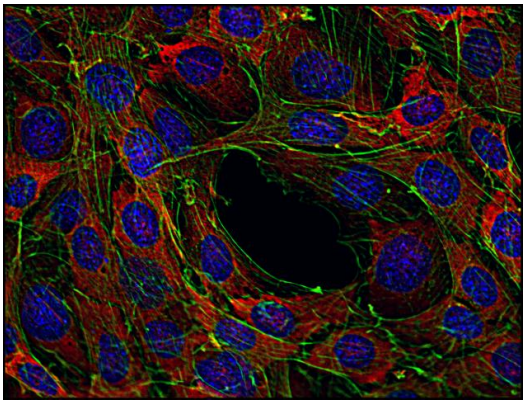
ARG63100 anti-SOS1 antibody [SOS-01] ICC/IF image

Immunofluorescence: Human primary fibroblasts stained with ARG63100 anti-SOS1 antibody [SOS-01] (green). Actin cytoskeleton was stained with phalloidin (red) and cell nuclei stained with DAPI (blue).



ARG63100 anti-SOS1 antibody [SOS-01] WB image

Western blot: 1) K562 and 2) Raji cell lysates stained with ARG63100 anti-SOS1 antibody [SOS-01].



ARG63100 anti-SOS1 antibody [SOS-01] ICC/IF image

Immunofluorescence: Murine transformed fibroblasts stained with ARG63100 anti-SOS1 antibody [SOS-01] (red). Actin cytoskeleton was stained with phalloidin (green) and cell nuclei stained with DAPI (blue).