Human SOS2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF6260

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human SOS2 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human SOS2 Met1-Ser384 Accession # Q07890
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

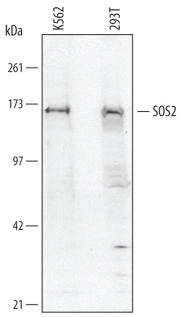
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below

DATA

Western Blot



Detection of Human SOS2 by Western Blot. Western blot shows lysates of K562 human chronic myelogenous leukemia cell line and 293T human embryonic kidney cell line. PVDF Membrane was probed with 2 µg/mL of Goat Anti-Human SOS2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6260) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for SOS2 at approximately 160 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

SOS2 (Son of sevenless homolog 2) is a 160-170 kDa protein that regulates Ras signaling. It is widely expressed, and serves as a mediator of guanine nucleotide phosphate exchange. In the resting cell, cytoplasmic SOS2 forms a heterodimer with Grb2, and a heterotrimer with Eps8 and E3b1. Upon RTK activation, the SOS heterodimer is recruited to the cell membrane, where it contacts GDP-bound Ras. This allows it to facilitate a GTP-for-GDP exchange that activates Ras. The heterotrimer interacts with Rac on actin filaments. SOS2 activity parallels that of SOS1. Relative to SOS1, however, SOS2 binds Grb2 with higher affinity and shows less biological activity due to a shorter half-life. Human SOS2 is 1332 amino acids (aa) in length and contains one histone fold (aa 97-169), PH (aa 439-546) and REM (aa 595-739) domains that interact with Ras, and a Pro-rich region that binds to Grb2 (aa 1126-1242).

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