Human SOS2 Alexa Fluor® 350-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF6260U
100 µg

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
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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).

PRODUCT SPECIFIC NOTICES

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