
Anti-Sos 1/2

Cat #: HM1339
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND

GTP-binding proteins, of which Ras proteins are prototypes, have been implicated in a broad range of biological activities. Binding of GTP activates RAS proteins, and subsequent hydrolysis of the bound GTP to GDP and phosphate inactivates signaling by these proteins. GTP binding can be catalyzed by guanine nucleotide exchange factors for RAS, and GTP hydrolysis can be accelerated by GTPase-activating proteins (GAPs). The first exchange factor to be identified for RAS was the *S. cerevisiae* CDC25 gene product. Genetic analysis indicated that CDC25 is essential for activation of RAS proteins. In *Drosophila*, the protein encoded by the 'son of sevenless' gene (Sos) contains a domain that shows sequence similarity with the catalytic domain of CDC25. Several mammalian homologs, including hSOS1 and hSOS2 have been identified.

SPECIFICITY

This antibody reacts with Sos 1 p170 and Sos 2 p155 by Western blotting, immunoprecipitation and immunohistochemistry (including paraffin-embedded sections).

Molecular Weight of Sos 1 and Sos 2: 170 kDa and 155 kDa, respectively. Western blotting positive controls: NIH/3T3 cell lysate.

IMMUNOGEN

A peptide within the amino terminal domain of human Sos 1.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

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