

Sam 68 (331-443): sc-4249

BACKGROUND

Sam 68 is a protein that is phosphorylated on tyrosine and functions as a substrate for Src family tyrosine kinases during mitosis. Sam 68 also associates with several SH2 and SH3 domain-containing signaling proteins, such as GRB2 and PLC γ 1. Originally cloned as Ras GAP-associated p62, further investigations have shown that Sam 68 and Ras GAP-associated p62 are not antigenically related, nor are they encoded by the same gene. Like Sam 68, the Sam 68-like mammalian proteins, SLM-1 and SLM-2, demonstrate RNA binding activity. Also like Sam 68, SLM-1 is tyrosine phosphorylated and functions as an adapter protein for signaling molecules, including GRB2, PLC γ 1, Fyn and Ras GAP. SLM-2 is not tyrosine phosphorylated, nor does it appear to associate with GRB2, PLC γ 1, Fyn or Ras GAP, indicating that SLM-2 may not be an adapter protein for these proteins.

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SOURCE

Sam 68 (331-443) is expressed in *E. coli* as a 51 kDa tagged fusion protein corresponding to amino acids 331-443 mapping within the carboxy-terminal domain of Sam 68 of mouse origin.

PRODUCT

Sam 68 (331-443) is purified (95%) by glutathione affinity chromatography; supplied as 50 μ g protein in PBS containing 5 mM DTT and 50% glycerol.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

Sam 68 (331-443) functions as a highly efficient substrate for phosphorylation by Src gene family protein tyrosine kinases (Lck, Fyn and Src) and ZAP-70; suitable as a Western blotting control for sc-733 and sc-1238.

Molecular Weight of Sam 68: 68 kDa.

SELECT PRODUCT CITATIONS

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PROTOCOLS

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