Saint Louis, Missouri 63103 USA
Telephone (800) 325-5832 (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

ProductInformation

Anti-SAP30L
Produced in rabbit, Affinity Isolated Antibody

Product Number **S 9195**

Product Description

Anti-SAP30L is produced in rabbit using as immunogen a peptide corresponding to the human SAP30L protein (amino acids 165-183). The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-SAP30L reacts with amino acid residues 165-183 (VKSNKSRLDQKSEGGKQLE) of human SAP30L. The antibody may be used in immunoblotting (~30 kDa, transfected wild-type). The antibody detects wild-type transfected hSAP30L or GST-hSAP30L fusion protein as well as endogenous hSAP30L in human cell lines (e.g., HEK293 and MCF-7 cells). It also detects wild-type transfected hSAP30L or GST-hSAP30L fusion protein in non-human cell lines (e.g., NIH3T3 cells). The antibody does not detect endogenous non-human SAP30L.

The transfected wild-type hSAP30L has an apparent molecular mass of ~30 kDa. The endogenous hSAP30L band has an apparent molecular mass of 21-22 kDa. The difference in the size of the bands is unknown, but is seen by investigators in studies of hSAP30L. Possible explanation for the size difference may be due to cleavage product, degradation, and/or product or post-translational modification.

SAP30L (Sin3-associated protein 30-like) has been identified as a novel TGF-β up-regulated mRNA species. The predicted nuclear localization signal of SAP30L is sufficient for nuclear transport of the protein, although mutating it does not completely remove SAP30L from the nuclei. Because of its nuclear localization and close homology to SAP30, it is thought that SAP30L might have a role in recruiting the Sin3-histone deacetylase complex to specific co-repressor complexes in response to TGF-β, leading to the silencing of proliferation-driving genes in the differentiating intestinal epithelial cells.

Reagent

The antibody is supplied as a solution of ~1 mg/mL in phosphate buffered saline containing 0.02% sodium azide.

Precautions and Disclaimer

Due to the sodium azide content a material safety sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazardous and safe handling practices.

Storage/Stability

Store at –20 °C. The product may be stored at 2-8 °C for up to three months. For prolonged storage, freeze in working aliquots at –20 °C. Avoid repeated freezing and thawing. Do not store in a “frost-free” freezer.

Product Profile

For immunoblotting, a working antibody dilution of 1:500-1:1,000 is recommended.

Note: In order to obtain the best results in various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

1. Lindfors, K., et al., BMC Genomics, **4**, 53 (2003).

KAA 11/05