

Uniprot ID: [P21673](#)

Protein name: SAT1_HUMAN

SAT1-3

Full name: Diamine acetyltransferase 1

Protein existence: evidence at protein level

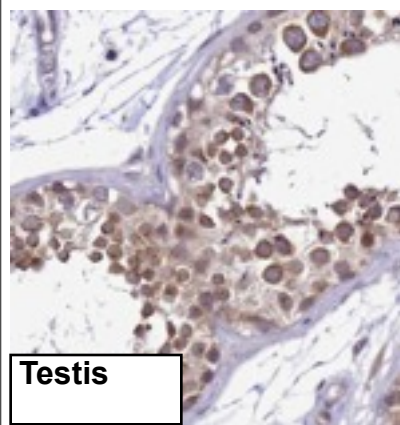
Function: Enzyme which catalyzes the acetylation of polyamines. Substrate specificity: norspermidine = spermidine >> spermine > N(1)-acetylspermine > putrescine. This highly regulated enzyme allows a fine attenuation of the intracellular concentration of polyamines. Also involved in the regulation of polyamine transport out of cells. Acts on 1,3-diaminopropane, 1,5-diaminopentane, putrescine, spermidine (forming N(1)- and N(8)-acetylspermidine), spermine, N(1)-acetylspermidine and N(8)-acetylspermidine.

Subcellular location: Cytoplasm.

Two antibodies: SAT1-2 and SAT1-3 were tested. SAT1-3 was approved for IHC and selected for full protein profiling.

SAT1-3 (CAB047343)

OK



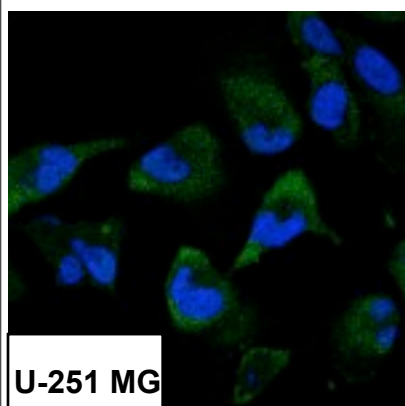
Immunohistochemistry

IHC protocol: HIER pH 6, Dilution 1:275

IHC test staining: Quite general cytoplasmic staining.

IHC Annotators comments

Most normal tissues displayed weak to moderate cytoplasmic and occasional nuclear positivity. Distal tubules, alveolar macrophages, subsets of cells in seminiferous ducts, upper stomach and neuronal cells of cerebral cortex were strongly stained. Squamous epithelial cells, bile ducts and smooth muscle cells were negative.

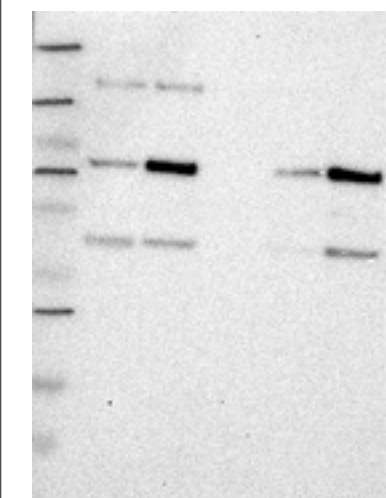


Immunofluorescence

IF Overlay: antibody (green), anti-tubuline (red) and DAPI (blue)

IF Localization: Staining of cytoplasm in U-251 MG.

IF Validation: The subcellular location is supported by literature.



Western blot

WB Size markers (kDa): 250, 130, 95, 72, 55, 36, 28, 17, 11

WB Lanes: Marker(1), RT-4(2), U251 MG(3), Plasma(4), Liver(5), Tonsil(6)

WB Target weight (kDa): 20, 14, 17, 17, 23

WB Validation: Not supportive (Only bands not corresponding to the predicted size)