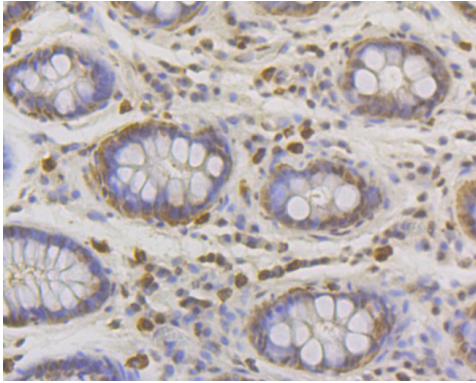
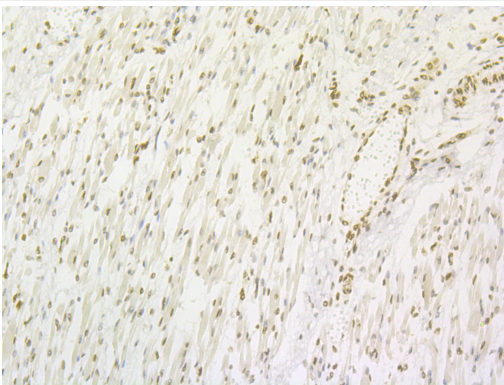


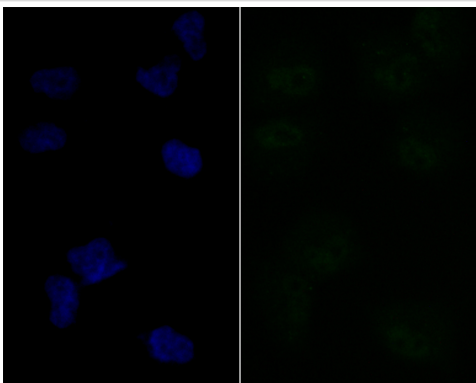
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-Lipin 1 antibody. Counter stained with hematoxylin.



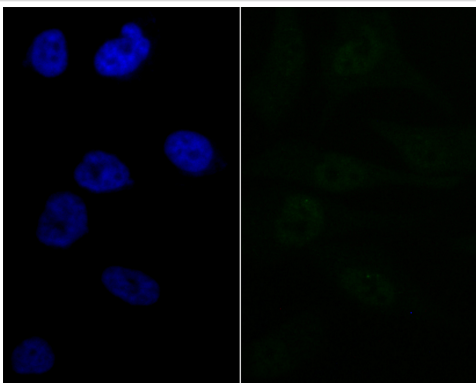
Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-Lipin 1 antibody. Counter stained with hematoxylin.



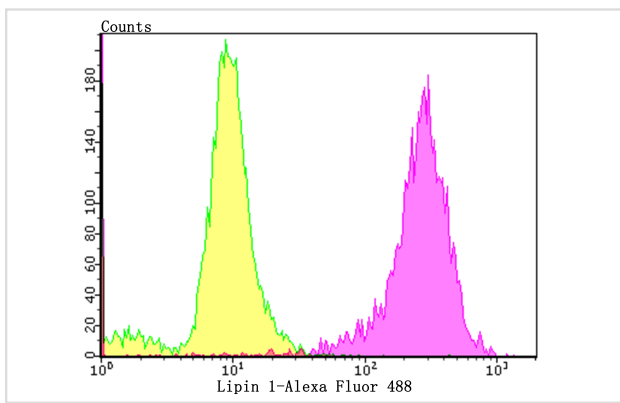
Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue using anti-Lipin 1 antibody. Counter stained with hematoxylin.



ICC staining Lipin 1 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Lipin 1 in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of PC-3M cells with Lipin 1 antibody at 1/50 dilution (purple) compared with an unlabelled control (cells without incubation with primary antibody; yellow). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.

Background

Plays important roles in controlling the metabolism of fatty acids at different levels. Acts as a magnesium-dependent phosphatidate phosphatase enzyme which catalyzes the conversion of phosphatidic acid to diacylglycerol during triglyceride, phosphatidylcholine and phosphatidylethanolamine biosynthesis in the reticulum endoplasmic membrane. Acts also as a nuclear transcriptional coactivator for PPARGC1A/PPARA to modulate lipid metabolism gene expression (By similarity). Is involved in adipocyte differentiation. May also be involved in mitochondrial fission by converting phosphatidic acid to diacylglycerol (By similarity).

References

Note: This product is for in vitro research use only