



iTraQ based analysis of proteins (N=9) differentially expressed in monocytes and hepatic stellate cells (HSCs) of subjects with or without liver fibrosis. Downregulated proteins (N=3) are colored in green while upregulated proteins (N=6) are colored in red.

Ras-related protein Rab-18 (RAB18), Annexin A6 (ANXA6), Ras-related protein Rab-14 (RAB14), Disintegrin and metalloproteinase domain-containing protein 8 and 9 (ADAM 8 and 9), Ras-related protein Rab-25 (RAB25), Galectin 1 and 12 (LGALS1 and 12) and Profilin-1 (PFN1)



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Whisker plots of monocyte PLIN2 levels (MFI) measured by flow cytometry in the training and validation cohorts at different levels of SAF-A.



ROC curve of PLIN2 algorithm for predicting absence/presence of inflammation (SAF-A=0 vs SAF-

A>=1) with the identified threshold, AUROC, sensitivity, and specificity.



ROC curves for predicting presence/absence of liver fibrosis using the RAB14 algorithm, NAFLD Fibrosis

Score, Fibrosis-4 (FIB-4) and AST-to-Platelet Ratio Index (APRI).

25

0

BMI<30

BMI<30



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NO Diabetes

NO Diabetes

Diabetes

Diabetes

25

0

BMI>=30

BMI>=30

A: PLIN2 algorithm accuracy for NAS level prediction in subjects with BMI<30 or BMI≥30 (left panel)

and in subjects with or without type 2 diabetes (right panel).

B: RAB14 algorithm accuracy for SAF-F level prediction in subjects with BMI<30 or BMI≥30 (left panel) and in subjects with or without type 2 diabetes (right panel).

C: Elastography algorithm accuracy for SAF-F level prediction in subjects with BMI<30 or BMI≥30 (left

panel) and in subjects with or without type 2 diabetes (right panel).



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- A: PLIN2 algorithm accuracy for NAS level prediction in subjects before and after surgery.
- B: RAB14 algorithm accuracy for SAF-F level prediction in subjects before and after surgery.
- C: Elastography algorithm accuracy for SAF-F level prediction in subjects before and after surgery.



Cell viability of hepatocytes (A) and hepatic stellate cells (B), stained with propidium iodide and analyzed by flow cytometry.

Cell purity assessed by flow cytometry; primary hepatocytes (C) were stained with GLUT2 Alexa Fluor[®] 488-conjugated antibody and hepatic stellate cells (D) with α -Smooth Muscle Actin PE-conjugated antibody.



Gating strategies for PBMCs stained with PLIN2 (A) or RAB14 (B). Antibody tritation curve for

PLIN2 (C) or RAB14 (D).





Influence of the different handling procedures on PBMCs stained for PLIN2 or RAB14. Cells were processed using the following procedures: fixation and staining (A) or fixation, cryopreservation and staining (B).