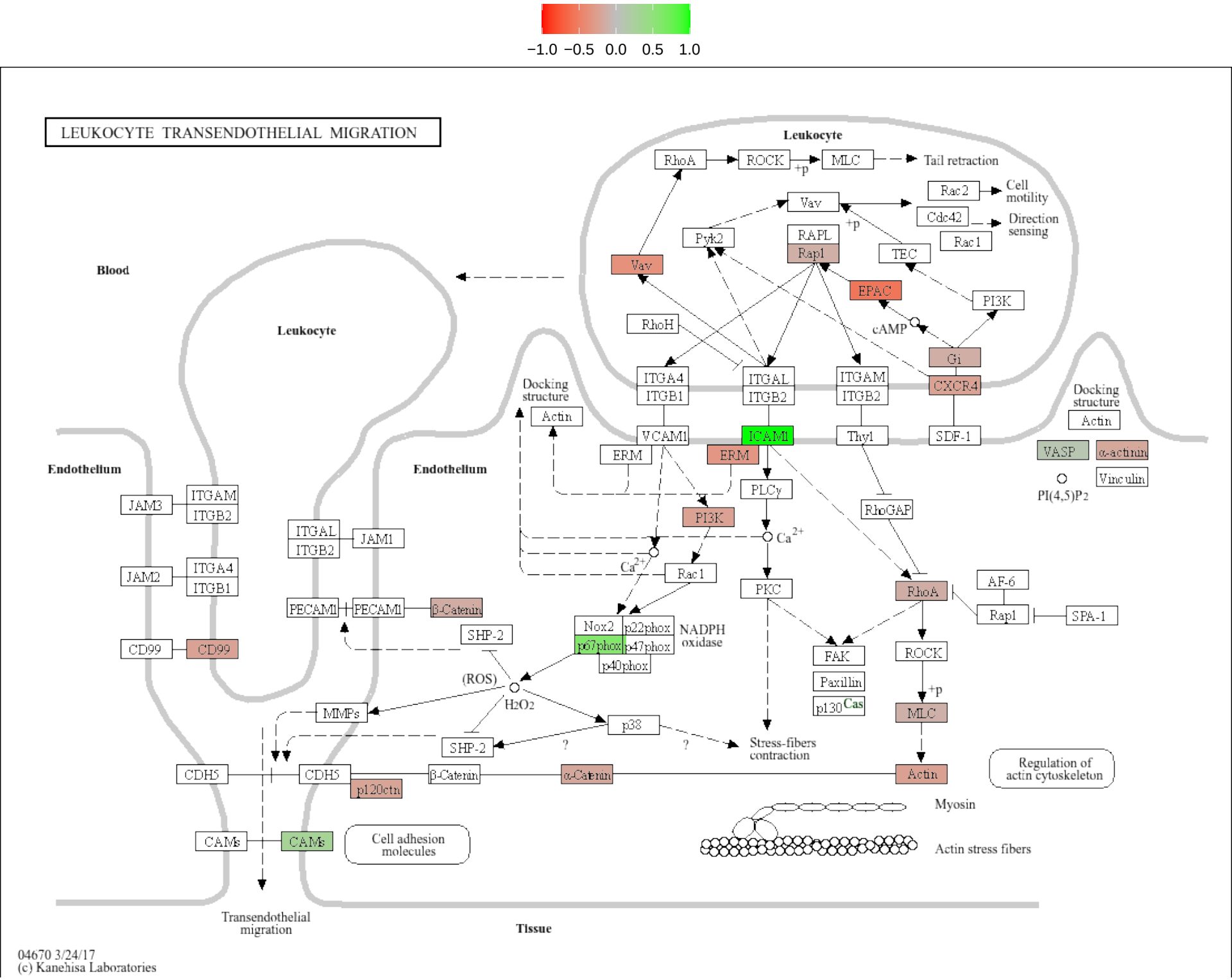
−1.0 −0.5 0.0 0.5 1.0
LEUKOCYTE TRANSENDOTHELIAL MIGRATION
Leukocyte
RhoA
ROCK
+p
MLC
Tail retraction
Rac2
Cell motility
Vav
Cdc42
Direction sensing
Rac1
Pyk2
RAPL
Rap1
TEC
Vav
EPAC
PI3K
RhoH
cAMP
Gi
ITGA4
ITGB1
ITGAL
ITGB2
ITGAM
ITGB2
CXCR4
Docking structure
Actin
VCAM1
ICAM1
Thy1
SDF-1
ERM
ERM
VASP
α-actinin
Vinculin
PI(4,5)P2
Blood
Leukocyte
Endothelium
Endothelium
JAM3
ITGAM
ITGB2
ITGAL
ITGB2
JAM1
JAM2
ITGA4
ITGB1
PLCγ
PI3K
RhoGAP
Ca2+
Ca2+
Rac1
PKC
RhoA
AF-6
Rap1
SPA-1
PECAM1
PECAM1
β-Catenin
SHP-2
Nox2
p22phox
p67phox
p47phox
p40phox
NADPH oxidase
CD99
CD99
FAK
ROCK
Paxillin
p130Cas
(ROS)
H2O2
MMPs
p38
+p
MLC
SHP-2
?
?
Stress-fibers contraction
CDH5
CDH5
p120ctn
β-Catenin
α-Catenin
Actin
Regulation of actin cytoskeleton
Myosin
CAMs
CAMs
Cell adhesion molecules
Actin stress fibers
Transendothelial migration
Tissue
04670 3/24/17
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