

Abstract

An application of a composition in preparation of a drug for diagnosing infantile hemangioma (IH) and/or monitoring progress and prognosis thereof, and a test kit comprising the composition and instructions. The composition comprises at least one of the following four groups of substances: (1) at least one of a total fatty acid or a total saturated fatty acid or a total mono-unsaturated fatty acid or a specific fatty acid; (2) at least one of specific metabolites; (3) at least one of specific proteins; and (4) at least one of specific lipid subclass substances or lipid molecules. The application and the kit can realize early warning/prediction and early diagnosis of the IH, close monitoring of disease progress, objective evaluation of a treatment effect of the drug, and accurate reflection of prognosis. A drug for treating the IH comprises a substance regulating expression selected from the group consisting of LDHB, KRT1, BCHE, CFHR4, CPQ, APOC-3, ARHGDIB, and LAMA5, thereby providing a new effective way for treatment of the IH.