

CD36はAOPPによる尿細管障害を促進する 重要な受容体の一つである

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CD36 is one of important receptors promoting renal tubular injury by advanced oxidation protein products

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ABSTRACT Chronic accumulation of plasma advanced oxidation protein products (AOPPs) promotes renal fibrosis. However, the mechanism at the cellular level has not been clarified. In the present study, endocytic assay of human proximal tubular cells (HK-2 cells) demonstrated that AOPPs-human serum albumin (HSA) (in vitro preparations of chloramine- modified HSA) were significantly endocytosed in a dose-dependent manner at a higher level than HSA. The expression of CD36, a transmembrane protein of the class B scavenger receptor, in HK-2 cells was confirmed in the immunoblot analysis. These results suggest that AOPPs-HSA may cause renal tubular injury via the CD36 pathway.

抄録 酸化されたアルブミン(AOPP)はCD36を介して近位尿細管細胞内へ取り込まれ、細胞内ROS産生を亢進させること、それに伴い炎症性サイトカインが誘導される結果、さらなる近位尿細管間質障害が引き起こされる可能性が示唆された。

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