Craig Brooks M.D., Ph.D.
Assistant Professor of Medicine
Vanderbilt University Medical School
Secondary Faculty Candidate for CDB

‘Non-autophagic roles of autophagy-related proteins in kidney disease’

KIM-1 is expressed by PTCs and mediates apoptotic cell phagocytosis
Following bilateral kidney ischemia in mice, KIM-1 is primarily expressed in the PT S3 segment, the area of most severe injury (A), where it localizes to the brush border and binds caspase 3 positive cells (B). In vitro, 3D reconstruction (C) or electron microscopy (D) reveals KIM-1 expressing LLC-PK1 cells actively phagocytose apoptotic cells. (Scale bars: A, 500 μm; B, 50 μm; C, 10 μm; D, 2 μm) (D, published previously [6]).

Monday September 25, 2017
12:15 pm
1220 MRB III