



glycoprotein constituent of normal human glomeruli

discussion

PLA2R

- in podocyte
- presence = disease activity
- cause and not consequence
- mannose receptor family

introduction

idiopathic membranous nephropathy

autoimmune disease

- rat model (Heymann's nephritis)
- antimegalin
- target antigen?
 - mother sensitized during previous pregnancies
 - deficiency of neutral endopeptidase
 - ? patient with IMN
- type 2 helper T-cell response (IgG4)

methods

- serum and kidney-tissue samples
 - IMN
 - other glomerular or autoimmune disorder
 - healthy volunteers
- western blotting
 - guinea pig anti-PLA2R
- mass spectrometry analysis and data interpretation
- immunoprecipitation
- immunohistologic analysis
 - sur les biopsies
- statistical analysis

results

WB

- 37 patients IMN
 - thumbs up 26 185 kD protein band
 - 70%
- 22 other diseases
 - thumbs down pas de band
- 30 normal control
 - thumbs down pas de band
- 8 patients secondary MN
 - thumbs down pas de band

identification of target protein in glomerular extracts

same protein

anti-PLA2R AB in patients with MN

- IgG4
- PLA2R AB

hypothèse

glomerular location of PLA2R

- surface of podocytes
- immunofluorescence microscopy with monospecific anti-PLA2R AB

association with disease

- decline or disappearance of anti-PLA2R AB
- patient with remission