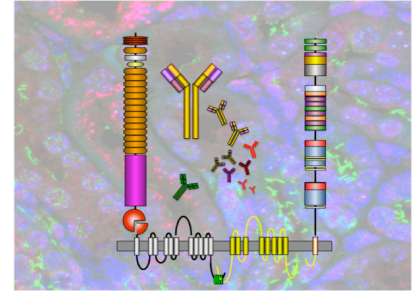


Rat Monoclonal Polycystin-1 (E8) Antibodies

(E8A-8C3C10 and E8B-8C3D11)

Support: 1-410-706-5804

Web: fqian@medicine.umaryland.edu
<http://www.baltimorepkdcenter.org/>



Applications

Western blotting (Fig 2)
Immunoprecipitation (Fig 3)

Recommended Antibody Dilutions

1ug/ml
0.1-2 µg per 2 mg total protein

Molecular Wt

~460 kDa

Background: Polycystin-1 (PC1) is encoded by the *PKD1* gene that is mutated in human autosomal dominant polycystic Kidney disease. PC1 is a 11-transmembrane glycoprotein that is cis-autoproteolytically cleaved at the extracellular GPS domain (Fig 1) in vivo, resulting a complex patterns of PC1 products in the kidney and other tissues.

Description: Rat monoclonal antibody to polycystin-1 CTF

Immunogen: Third extracellular loop of mouse PC1 (aa 3682-3882)

Species Cross-Reactivity : Human and mouse

Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Storage buffer: PBS, pH7.2, 50% glycerol, 0.15% NaN₃

Concentration: E8A-8C3C10 1.5mg/ml; E8B-8C3D11 3mg/ml

Purity: Protein G purified

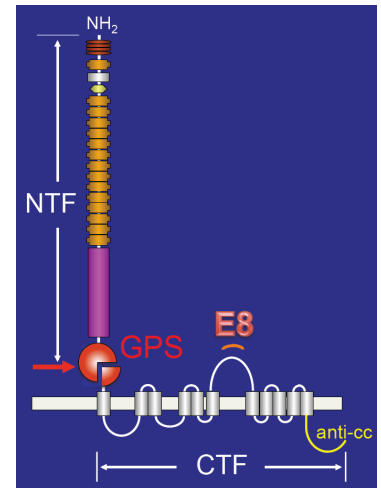


Fig 1: E8 antibody is directed against the third extracellular loop of mouse polycystin-1 protein.

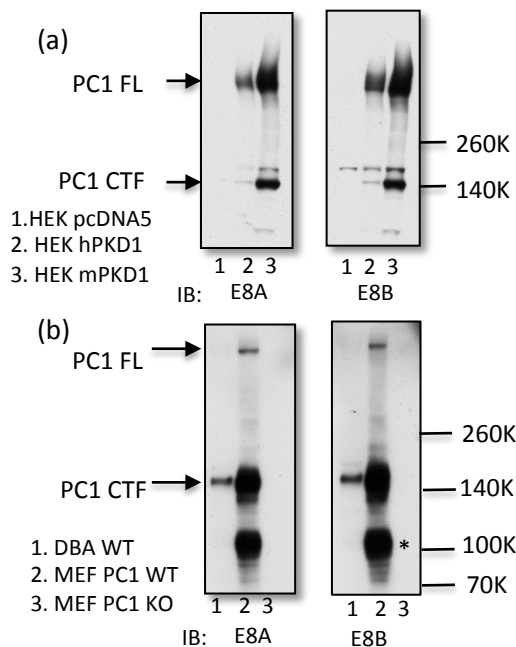


Fig 2: (a) Immunoblot detection of recombinant human or mouse PC1 by E8A and E8B. E8 can detect full length (FL) PC1 and the C-terminal fragment (CTF). (b) Immunoblot detection of endogenous mouse PC1 by E8A and E8B in MEF total lysate, but not in Pkd1 KO MEF lysate. * indicates the band that is probably the P100 product.

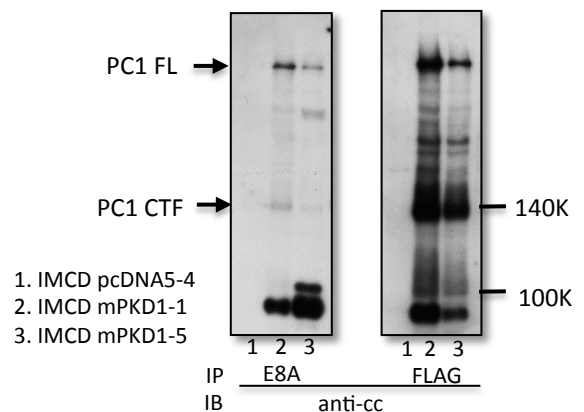


Fig 3: Immunoprecipitation (IP) of recombinant FLAG-tagged polycystin-1 from IMCD stable cell lines by E8A. FLAG IP serves as positive control. Immunoprecipitated PC1 is detected by immunoblot with anti-CC antibody (directed against the C-terminal tail, Fig 1).