Polycystin-1 Antibodies (E1, 2 and 3, 4)

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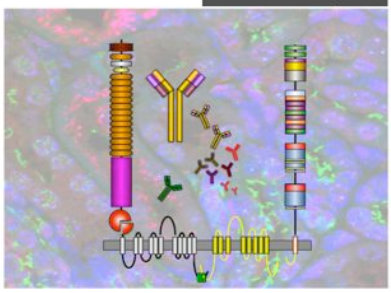
UNIVERSITY of MARYLAND SCHOOL OF MEDICINE — ANTIBODY & VECTOR CORE B



Applications	Recommended Antibody Dilutions	Molecular Wt
Western blotting (Fig 1)	1:200-1:500	~460 kDa
Immunoprecipitation (Fig 2)	0.1-2 µg per 2 mg total proteins	
Immunofluorescence (Fig 3)	1:50	

Background: Polycystin-1 (PC1) is the gene product of *PKD1* that is mutated in human autosomal dominant polycystic Kidney disease. It is required for tubular morphogenesis and maintenance of the kidney and other organs. PC1 is a 11-transmembrane glycoprotein that is cis-autoproteolytically cleaved at juxtamembrane extracellular GPS/GAIN in vivo, resulting a complex patterns of endogenous PC1 products in the kidney and other tissues.

Description: Mouse monoclonal antibodies to polycystin-1

Immunogens: LRR domain of human PC1: E1 and E2;
C-lectin domain of human PC1: E3 and E4

Species Cross-Reactivity : Human and mouse (tested)
Form: Liquid
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 and 50% glycerol
Concentration: 100 µl at 200 µg/ml
Purity: Protein G purified

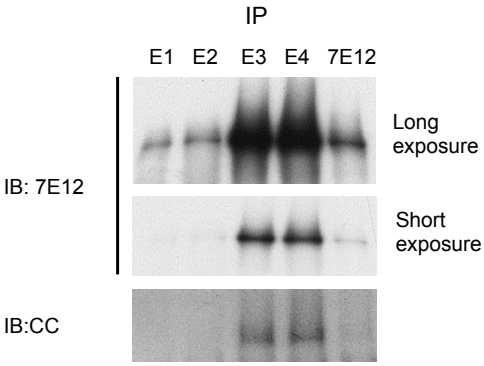


Fig 2: Immunoprecipitataion of endogenous polycystin-1 from mouse lung tissue lysates by E1-4 or 7E12. Immunopreipitated PC1 is detected by immunoblot by 7E12 or anti-CC (directed against tthe C-terminal tail)

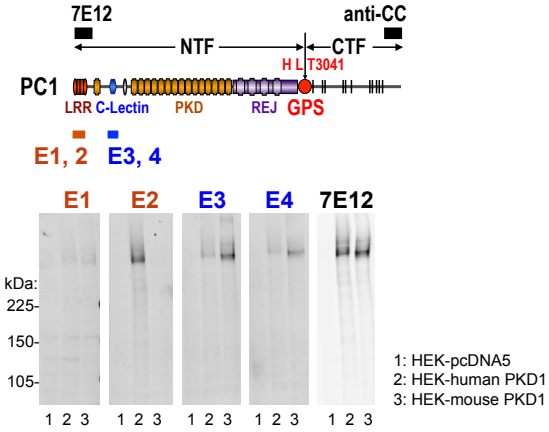


Fig 1: Immunoblot detection of recombinant human or mouse PC1 by E1-4 or 7E12.

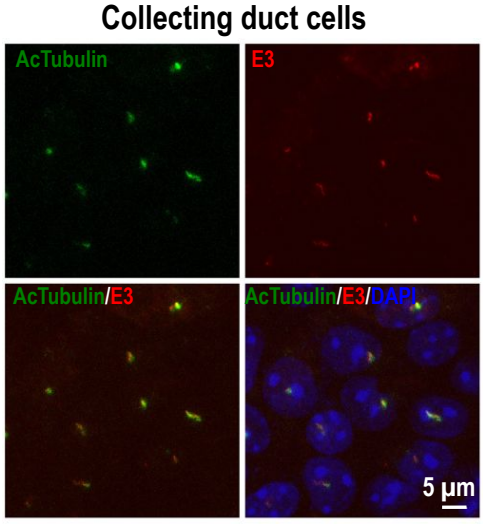


Fig 3: Immunofluorescence detection of endogenous polycystin-1 in the cilia of mouse collecting duct cells by E3.