Product Name: OCRL Rabbit Polyclonal Antibody

Catalog #: APRab15095



Summary

Production Name OCRL Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

HostRabbitApplicationWB,ELISAReactivityHuman,Mouse

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Polyclonal Form Liquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw Storage

cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Immunogen

Gene Name OCRL

OCRL; INPP5F; OCRL1; Inositol polyphosphate 5-phosphatase OCRL-1; Lowe

oculocerebrorenal syndrome protein

Gene ID 4952.0

Q01968.The antiserum was produced against synthesized peptide derived from human SwissProt ID

OCRL. AA range:150-199

Application

Dilution Ratio WB 1:500-1:2000, ELISA 1:10000.Not yet tested in other applications.

Molecular Weight 104kDa

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Background

This gene encodes an inositol polyphosphate 5-phosphatase. This protein is involved in regulating membrane trafficking and is located in numerous subcellular locations including the trans-Golgi network, clathrin-coated vesicles and, endosomes and the plasma membrane. This protein may also play a role in primary cilium formation. Mutations in this gene cause oculocerebrorenal syndrome of Lowe and also Dent disease. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016],catalytic activity:1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate + H(2)O = 1phosphatidyl-1D-myo-inositol 4-phosphate + phosphate., caution: It is uncertain whether Met-1, Met-18 or Met-20 is the initiator, disease: Defects in OCRL are the cause of Dent disease type 2 (DD2) [MIM:300555]. DD2 is a renal disease belonging to the 'Dent disease complex', a group of disorders characterized by proximal renal tubular defect, hypercalciuria, nephrocalcinosis, and renal insufficiency. The spectrum of phenotypic features is remarkably similar in the various disorders, except for differences in the severity of bone deformities and renal impairment. Characteristic abnormalities include low-molecular-weight proteinuria and other features of Fanconi syndrome, such as glycosuria, aminoaciduria, and phosphaturia, but typically do not include proximal renal tubular acidosis. Progressive renal failure is common, as are nephrocalcinosis and kidney stones, disease: Defects in OCRL are the cause of Lowe syndrome [MIM:309000]; also known as Lowe oculocerebrorenal syndrome. The Lowe syndrome is an X-linked multisystem disorder affecting eyes, nervous system, and kidney. It is characterized by hydrophthalmia, cataract, mental retardation, vitamin Dresistant rickets, aminoaciduria, and reduced ammonia production by the kidney. Ocular abnormalities include cataract, glaucoma, microphthalmos, and decreased visual acuity. Developmental delay, hypotonia, behavior abnormalities, and areflexia are also present. Renal tubular involvement is characterized by impaired reabsorption of bicarbonate, amino acids, and phosphate. Musculoskeletal abnormalities such as joint hypermobility, dislocated hips, and fractures may develop as consequences of renal tubular acidosis and hypophosphatemia. Cataract is the only significant manifestation in carriers and is detected by slit-lamp examination, function: Converts phosphatidylinositol 4,5-bisphosphate to phosphatidylinositol 4phosphate. Also converts inositol 1,4,5-trisphosphate to inositol 1,4-bisphosphate and inositol 1,3,4,5-tetrakisphosphate to inositol 1,3,4-trisphosphate. May function in lysosomal membrane trafficking by regulating the specific pool of phosphatidylinositol 4,5-bisphosphate that is associated with lysosomes.,similarity:Belongs to the inositol-1,4,5trisphosphate 5-phosphatase type II family, similarity: Contains 1 Rho-GAP domain, tissue specificity: Brain, skeletal muscle, heart, kidney, lung, placenta and fibroblasts.,

Research Area

Inositol phosphate metabolism; Phosphatidylinositol signaling system;

Image Data

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

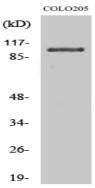
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Western blot analysis of lysate from COLO205 cells treated with Forskolin, using OCRL antibody.



Western Blot analysis of various cells using OCRL Polyclonal Antibody

Note

For research use only.