OCRL Rabbit pAb

CatalogNo: YT3228 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB,ELISA

MW
- 104kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

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

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human OCRL. AA range:150-199
Specificity	OCRL Polyclonal Antibody detects endogenous levels of OCRL protein.

Target Information

Gene name OCRL

Protein Name Inositol polyphosphate 5-phosphatase OCRL-1

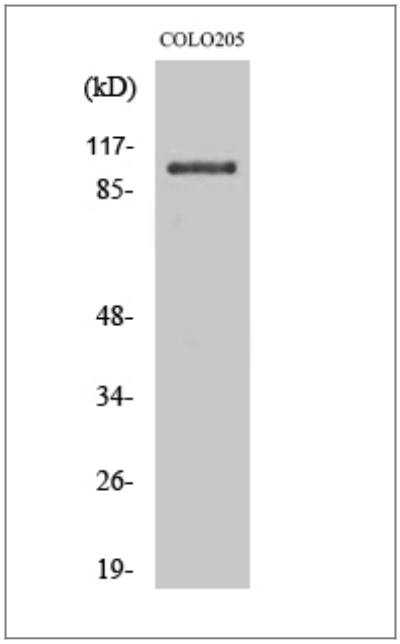
Organism	Gene ID	UniProt ID
Human	4952;	Q01968;

Cellular Localization Cytoplasmic vesicle, phagosome membrane . Early endosome membrane . Membrane, clathrin-coated pit . Cell projection, cilium, photoreceptor outer segment . Cell projection, cilium . Cytoplasmic vesicle . Endosome . Golgi apparatus, trans-Golgi network . Lysosome . Also found on macropinosomes (PubMed:25869668). Colocalized with APPL1 on phagosomes (PubMed:22072788). .

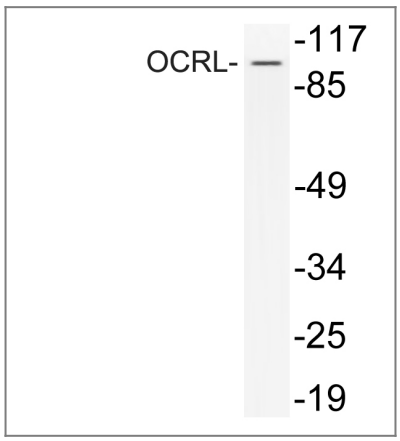
Tissue specificity Brain, skeletal muscle, heart, kidney, lung, placenta and fibroblasts. Expressed in the retina and the retinal pigment epithelium.

Function Catalytic activity:1-phosphatidyl-1D-myo-inositol 4,5-bisphosphate + H(2)O = 1-phosphatidyl-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 D-resistant 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 4-phosphate. 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-1,4,5-trisphosphate 5-phosphatase type II family.,similarity:Contains 1 Rho-GAP domain.,tissue specificity:Brain, skeletal muscle, heart, kidney, lung, placenta and fibroblasts.,

Validation Data



Western Blot analysis of various cells using OCRL Polyclonal Antibody



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

Contact information

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Please scan the QR code to access additional product information:
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