

Glutaminase C (PT0168R) PT™ Rabbit mAb

CatalogNo: YM8102 **Recombinant** R

Key Features

Host Species

- Rabbit

Reactivity

- Human,Mouse,Rat

Applications

- WB,IHC,IF,IP,ELISA

MW

- 68kD (Calculated)
- 55-65kD (Observed)

Isotype

- IgG,Kappa

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Recommended Dilution Ratios

IHC 1:200-1000

WB 1:1000-5000

IF 1:200-1000

ELISA 1:5000-20000

IP 1:50-200

Basic Information

Clonality Monoclonal

Clone Number PT0168R

Immunogen Information

Specificity Endogenous

Target Information

Gene name GLS GLS1 KIAA0838

Protein Name GLSK

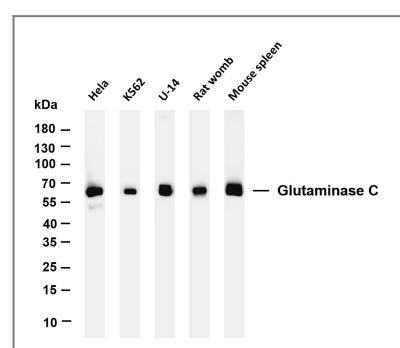
Organism	Gene ID	UniProt ID
Human	2744 ;	O94925 ;
Mouse	14660 ;	D3Z7P3 ;
Rat	24398 ;	P13264 ;

Cellular Localization Cytoplasm

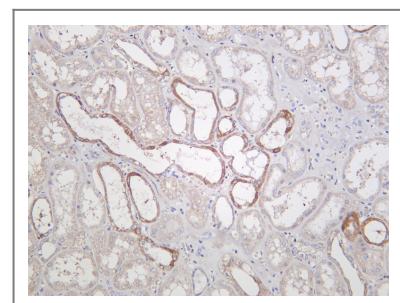
Tissue specificity Isoform 1 and isoform 3 are detected in brain cortex. Isoform 3 is highly expressed in astrocytoma, ganglioglioma and ependymoma. Isoform 1 is highly expressed in brain and kidney, but not detected in liver. Isoform 3 is highly expressed in heart and pancreas, detected at lower levels in placenta, lung, pancreas and kidney, but is not detected in liver. Isoform 2 is expressed in cardiac and skeletal muscle.

Function Catalytic activity:L-glutamine + H(2)O = L-glutamate + NH(3).,Function:Catalyzes the first reaction in the primary pathway for the renal catabolism of glutamine.,similarity:Belongs to the glutaminase family.,similarity:Contains 1 ANK repeat.,tissue specificity:KGA is expressed predominantly in brain and kidney but not in liver, GAC is expressed principally in cardiac muscle and pancreas but not in liver or brain, and GAM is expressed solely in cardiac and skeletal muscle.,

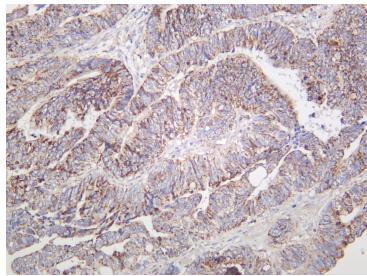
Validation Data



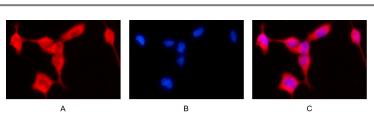
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Glutaminase C antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: K562 Lane 3: U-14 Lane 4: Rat womb Lane 5: Mouse spleen Predicted band size: 68kDa Observed band size: 68kDa



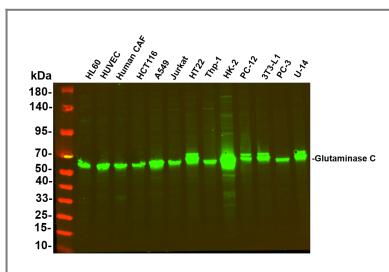
Human kidney was stained with Anti-Glutaminase C rabbit antibody



Human colon carcinoma was stained with Anti-Glutaminase C rabbit antibody



Immunofluorescence analysis of HEK293. Picture A: Glutaminase C antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:2500 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody(Cat:RS23920) was used to detect the antibody. Lane1: HL60 - Human promyelocytic leukemia cell Lane2: HUVEC - Human umbilical vein endothelial cell Lane3: Human CAF - Human cancer-associated fibroblast Lane4: HCT116 - Human colorectal carcinoma Lane5: A549 - Human lung carcinoma Lane6: Jurkat - Human T lymphocyte leukemia Lane7: HT22 - Mouse hippocampal neuronal Lane8: Thp-1 - Human monocytic leukemia Lane9: HK-2 - Human proximal tubular epithelial Lane10: PC-12 - Rat adrenal pheochromocytoma Lane11: 3T3-L1 - Mouse embryonic fibroblast Lane12: PC-3 - Human prostate adenocarcinoma Lane13: U-14 - Mouse cervical carcinoma Predicted band size: 68kDa Observed band size: 65kDa

Contact information

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Please scan the QR code to access additional product information:
Glutaminase C (PT0168R) PT™ Rabbit mAb

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