For Research Use Only

KGA/GAC Monoclonal antibody

Catalog Number:66265-1-lg Featured Product

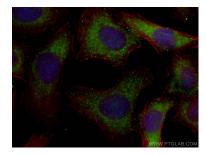
8 Publications



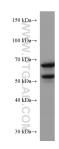
| Basic Information | Catalog Number: 66265-1-lg | GenBank Accession Num BC038507 | ber: Purification Method: Protein A purification | | |
|------------------------|---|-----------------------------------|--|--|--|
| | Size: | GenelD (NCBI): | CloneNo.: | | |
| | 1900 µg/ml | 2744 | 3A12A1 | | |
| | Source: | UNIPROT ID: | Recommended Diluti | ons: | |
| | Mouse | 094925 Full Name: | WB 1:5000-1:50000 IHC 1:50-1:500 | | |
| | lsotype: IgG2b | glutaminase | IF 1:50-1:500 | IF 1:50-1:500 | |
| | Immunogen Catalog Number: AG24227 | Calculated MW: 669 aa, 73 kDa | | | |
| | | Observed MW: 58 kDa, 65 kDa | | | |
| Applications | Tested Applications: | P | Positive Controls: | | |
| | | | | H/3T3 cells, rat liver tissue, fetal human brair | |
| | Cited Applications: IF, IHC, WB | | ssue, U-251 cells, HEK-293 cells | | |
| | Species Specificity: | | HC : human gliomas tissue, mouse l F : mouse brain tissue, HepG2 cells, | | |
| | Cited Species: human, mouse | | | | |
| | Note-IHC: suggested antige TE buffer pH 9.0; (*) Altern retrieval may be performed buffer pH 6.0 | atively, antigen | | | |
| Background Information | GLS, also named as GLS1 and KIAA0838, belongs to the glutaminase family. It catalyzes the first reaction in the primary pathway for the renal catabolism of glutamine. Glutaminase-, glutamate-, and taurine-immunoreactive neurons develop neurofibrillary tangles in Alzheimer's disease(PMID:1672808). The glutaminase band in AA/C1 cells is more intense than in HT29 cells, in accordance with measurements of glutaminase activity, and had the same molecular mass of approx. 63 kDa. The bands for both cell lines are clearly different in size from both rat liver glutaminase (58 kDa) and rat kidney glutaminase (65 kDa)(PMID:12408749). It also reveals a molecular weight of 83-84 kDa as a phosphate-dependent glutaminase(PMID:447624;7512428). It has 3 isoforms named as KGA, GAM, GAC. This antibody can recognize KGA and GAC. | | | | |
| Notable Publications | Author | Pubmed ID Journal | | Application | |
| | Bin Jiang | 35381197 Mol Cell | | NB,IF | |
| | Yifan Feng | 35345831 Oxid Me | d Cell Longev I | F | |
| | Tokio Terado | 35894141 Int J Ond | col N | WB | |
| Storage | Storage: Store at -20°C. Stable for one yea Storage Buffer: | r after shipment. | | | |

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



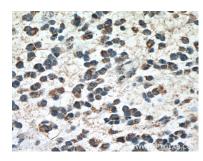
Immunofluorescent analysis of (-20°C Ethanol) fixed LO2 cells using KGA/GAC antibody (66265-1-Ig, Clone: 3A12A1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



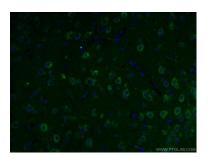
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 66265-1-lg (GLS antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 66265-1-1g (GLS antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human gliomas tissue slide using 66265-1-1g (GLS antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 66265-1-1g (GLS antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).