## For Research Use Only

## KGA-Specific Monoclonal antibody

Size: 1400 ug/ml

Source: Mouse

Isotype:

lgG1

Catalog Number: 66265-2-lg



**Basic Information** 

Catalog Number: 66265-2-lg GenBank Accession Number: BC038507 GeneID (NCBI):

2744 UNIPROT ID: 094925 Full Name:

glutaminase

Immunogen Catalog Number: Calculated MW: AG24227 669 aa, 73 kDa

Observed MW: 65 kDa Purification Method:

Protein G purification

CloneNo.: 1B11A11

Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000

IF-P 1:200-1:800 IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate

buffer pH 6.0

**Positive Controls:** 

WB: mouse brain tissue, HEK-293 cells, COLO 320

cells, HSC-T6 cells, NIH/3T3 cells

IHC: mouse brain tissue, IF-P: mouse brain tissue, IF/ICC: A549 cells,

## **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. 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 produced by alternative splicing named as KGA, GAM, GAC. This antibody is specific to KGA.

Storage

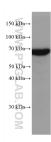
Storage:

Store at -20°C. Stable for one year after shipment. Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

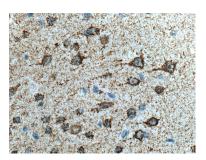
## **Selected Validation Data**



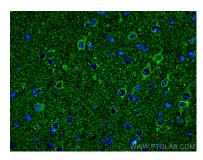
mouse brain tissue were subjected to SDS PAGE followed by western blot with 66265-2-1g (GLS antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



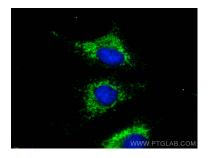
Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 66265-2-Ig (GLS antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse brain tissue slide using 66265-2-Ig (GLS antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using KGA-Specific antibody (66265-2-lg, Clone: 1B11A11) at dilution of 1:400 and Coralite®488-Conjugated Affini Pure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using KGA-Specific antibody (66265-2-lg, Clone: 1B11A11) at dilution of 1:400 and CoraLite®488-Conjugated Affini Pure Goat Anti-Mouse IgG(H+L) (SA00013-1).