

KGA/GAC Polyclonal Antibody

Catalog number: 12855-1-AP

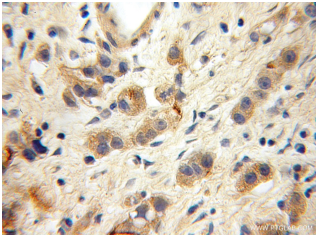
Size: 35 µg/150 µl

Source: Rabbit

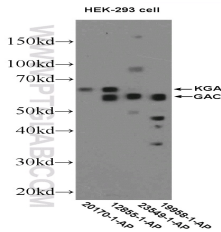
Isotype: IgG

Synonyms:

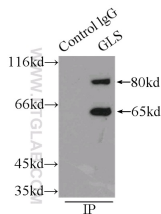
GLS; AAD20, DKFZp686O15119, FLJ10358, GAC, GLS, GLS1, glutaminase, K glutaminase, KGA, KIAA0838, L glutamine amidohydrolase



Immunohistochemical of paraffin-embedded human gliomas using 12855-1-AP (GLS antibody) at dilution of 1:100 (under 10x lens)



HEK-293 cells were subjected to SDS PAGE followed by western blot with 12855-1-AP (GLS Antibody) at dilution of 1:600



IP Result of anti-GLS (IP:12855-1-AP, 4ug; Detection:12855-1-AP 1:500) with mouse brain tissue lysate 8000ug.

Background

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.

Applications

Tested applications:	ELISA, IHC, IP, WB
Cited applications:	IF, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse, rat
Calculated KGA/GAC MW:	669aa, 73 kDa
Observed KGA/GAC MW:	65kd, 58kd
Positive WB detected in	HEK-293 cells, mouse brain tissue, mouse kidney tissue
Positive IP detected in	Mouse brain tissue
Positive IHC detected in	Human gliomas tissue, human brain tissue, human kidney tissue
Recommended dilution:	WB: 1:200-1:2000
	IP: 1:200-1:2000
	IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag3505
GenBank accession number:	BC038507
Gene ID (NCBI):	2744
Full name:	Glutaminase

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.