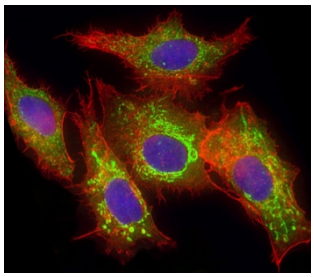
Glutaminase Antibody / GLS (F54260)

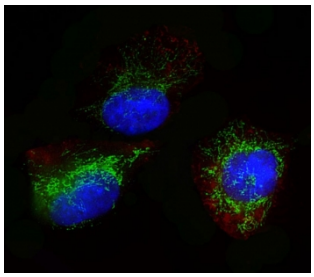
Catalog No.	Formulation	Size
F54260-0.2ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.2 ml
F54260-0.05ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.05 ml

Bulk quote request

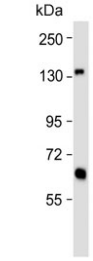
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	O94925
Gene ID	2744
Localization	Cytoplasmic
Applications	Western Blot : 1:1000-1:2000 Immunofluorescence : 1:25 Immunohistochemistry (FFPE) : 1:100-1:200 Flow Cytometry : 1:25 (per 1x10e6 cells)
Limitations	This Glutaminase antibody is available for research use only.



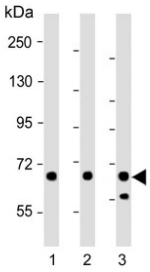
Immunofluorescent staining of fixed and permeabilized human HepG2 cells with Glutaminase antibody (green), DAPI nuclear stain (blue) and anti-Actin (red).



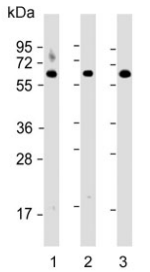
Immunofluorescent staining of fixed and permeabilized human U-251 cells with Glutaminase antibody (green), DAPI nuclear stain (blue) and anti-Actin (red).



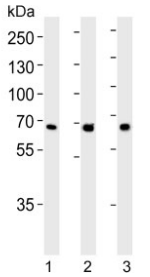
Western blot testing of human 293 cell lysate with Glutaminase antibody. Predicted molecular weight: 65-73 kDa.



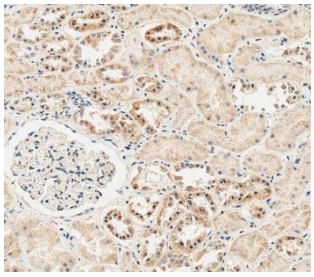
Western blot testing of 1) human brain, 2) mouse brain and 3) human 293T cell lysate with Glutaminase antibody. Predicted molecular weight: 65-73 kDa.



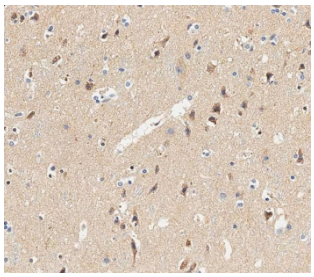
Western blot testing of 1) human brain, 2) human kidney and 3) mouse brain lysate with Glutaminase antibody. Predicted molecular weight: 65-73 kDa.



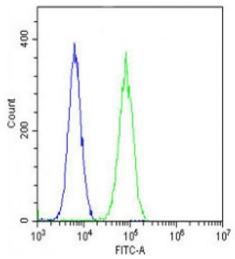
Western blot testing of 1) human brain, 2) mouse brain and 3) rat kidney lysate with Glutaminase antibody. Predicted molecular weight: 65-73 kDa.



IHC testing of FFPE human kidney tissue with Glutaminase antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human brain tissue with Glutaminase antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Flow cytometry testing of fixed and permeabilized human U-2 OS cells with Glutaminase antibody; Blue=isotype control, Green= Glutaminase antibody.

Description

Sahai (1983) demonstrated phosphate-activated glutaminase (EC 3.5.1.2) in human platelets. It is the major enzyme yielding glutamate from glutamine. Significance of the enzyme derives from its possible implication in behavior disturbances in which glutamate acts as a neurotransmitter (Prusiner, 1981). High heritability of platelet glutaminase was indicated by studies of Sahai and Vogel (1983) [PubMed 6682827] who found an intraclass correlation coefficient of 0.96 for monozygotic twins and 0.53 for dizygotic twins.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Glutaminase antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 516-545 from the human protein were used as the immunogen for the Glutaminase antibody.

Storage

Aliquot the Glutaminase antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.