

Datasheet for ABIN968015
anti-GLN1 antibody (AA 1-373)

3 Images

7 Publications

[Go to Product page](#)

Overview

Quantity:	150 µg
Target:	GLN1
Binding Specificity:	AA 1-373
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GLN1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Biolmaging (BI)

Product Details

Immunogen:	Human Glutamine Synthetase aa. 1-373
Clone:	6-Glutamine Synthetase
Isotype:	IgG2a
Cross-Reactivity:	Rat (Rattus), Human, Mouse (Murine)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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Target Details

Target:	GLN1
Alternative Name:	Glutamine Synthetase (GLN1 Products)
Background:	Glutamine synthetase catalyzes the amination of glutamic acid to form glutamine. It is found in mammals as an octamer of identical 45 kDa subunits. Glutamine synthetase activity is a useful marker for astrocytes and an important differentiation feature in retina. It is also considered to be a key enzyme in the recycling of the neurotransmitter glutamate. This antibody is routinely tested by western blot analysis.
Molecular Weight:	45 kDa
Pathways:	Positive Regulation of Peptide Hormone Secretion

Application Details

Comment:	Related Products: ABIN968545, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:	De Sevilla Müller, Liu, Solomon, Rodriguez, Brecha: "Expression of voltage-gated calcium
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channel $\alpha(2)\delta(4)$ subunits in the mouse and rat retina." in: **The Journal of comparative neurology**, Vol. 521, Issue 11, pp. 2486-501, (2013) ([PubMed](#)).

OBrien, Caldwell, Ehring, Bumsted OBrien, Luo, Levinson: "Tetrodotoxin-resistant voltage-gated sodium channels Na(v)1.8 and Na(v)1.9 are expressed in the retina." in: **The Journal of comparative neurology**, Vol. 508, Issue 6, pp. 940-51, (2008) ([PubMed](#)).

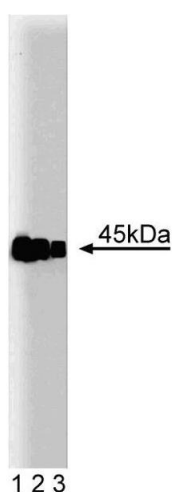
Kronfeld, Kazimirsky, Lorenzo, Garfield, Blumberg, Brodie: "Phosphorylation of protein kinase Cdelta on distinct tyrosine residues regulates specific cellular functions." in: **The Journal of biological chemistry**, Vol. 275, Issue 45, pp. 35491-8, (2000) ([PubMed](#)).

Labow, Souba, Abcouwer: "Glutamine synthetase expression in muscle is regulated by transcriptional and posttranscriptional mechanisms." in: **The American journal of physiology**, Vol. 276, Issue 6 Pt 1, pp. E1136-45, (1999) ([PubMed](#)).

Fei, DAmbrosio, Li, Surmacz, Baserga: "Association of insulin receptor substrate 1 with simian virus 40 large T antigen." in: **Molecular and cellular biology**, Vol. 15, Issue 8, pp. 4232-39, (1995) ([PubMed](#)).

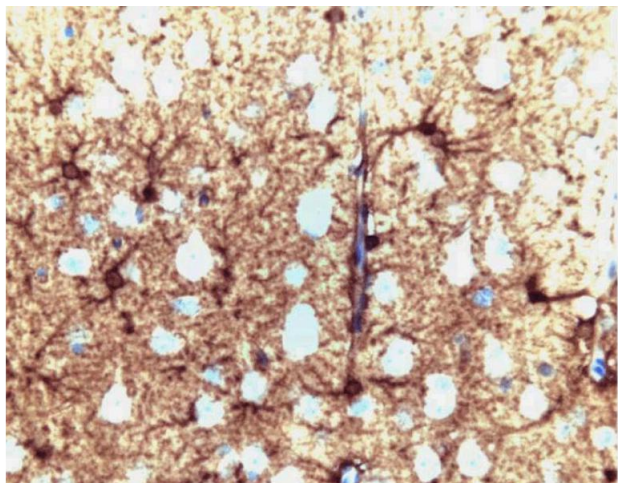
There are more publications referencing this product on: [Product page](#)

Images



Western Blotting

Image 1. Western blot analysis of glutamine synthetase on a rat cerebrum lysate. Lane 1: 1:5000, lane 2: 1:10,000, lane 3: 1:20,000 dilution of the anti- glutamine synthetase antibody.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Glutamine synthetase staining on a rat cerebrum section. Section prepared during antibody development was formalin fixed and paraffin embedded without citrate buffer pretreatment. Note visible staining of astrocytes in the section. Magnification: 40X.

Image 3.

