

Datasheet for ABIN968014
anti-GLN1 antibody (AA 1-373)

2 Images

11 Publications

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Overview

Quantity:	50 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:	Puller, Haverkamp: "Cell-type-specific localization of protocadherin β16 at AMPA and
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AMPA/Kainate receptor-containing synapses in the primate retina." in: **The Journal of comparative neurology**, Vol. 519, Issue 3, pp. 467-79, (2011) ([PubMed](#)).

Kawano, Tanizawa, Shinoda: "Wolfram syndrome 1 (Wfs1) gene expression in the normal mouse visual system." in: **The Journal of comparative neurology**, Vol. 510, Issue 1, pp. 1-23, (2008) ([PubMed](#)).

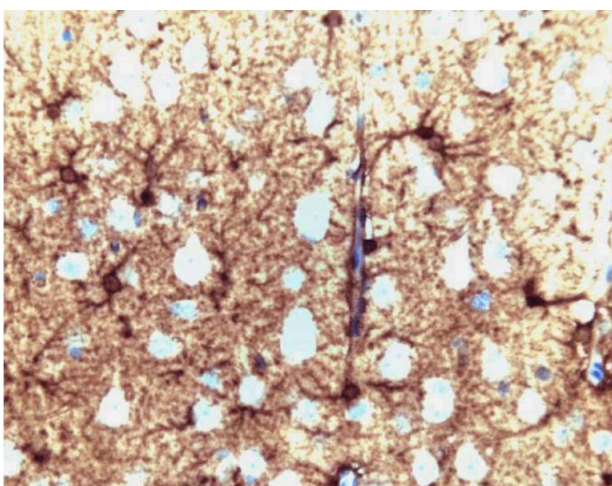
Poché, Furuta, Chaboissier, Schedl, Behringer: "Sox9 is expressed in mouse multipotent retinal progenitor cells and functions in Müller glial cell development." in: **The Journal of comparative neurology**, Vol. 510, Issue 3, pp. 237-50, (2008) ([PubMed](#)).

Gaillard, Bonfield, Gilmour, Kuny, Mema, Martin, Smale, Crowder, Stell, Sauvé: "Retinal anatomy and visual performance in a diurnal cone-rich laboratory rodent, the Nile grass rat (*Arvicanthis niloticus*)." in: **The Journal of comparative neurology**, Vol. 510, Issue 5, pp. 525-38, (2008) ([PubMed](#)).

Ding, Weinberg: "Distribution of soluble guanylyl cyclase in rat retina." in: **The Journal of comparative neurology**, Vol. 500, Issue 4, pp. 734-45, (2007) ([PubMed](#)).

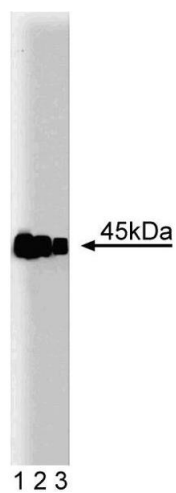
There are more publications referencing this product on: [Product page](#)

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. 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.



Western Blotting

Image 2. 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.