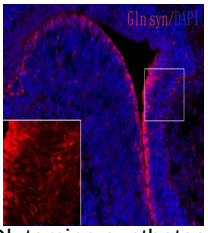
German Research Products - GRP GmbH
In der Stockwiese 26
D-85410 Haag/Amper, Germany
Email: info@grp-ak.de
Phone: +49 (0)8167 6335

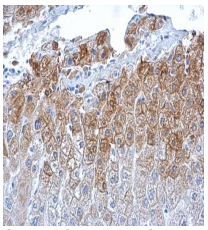
Product Datasheet

Glutamine synthetase antibody [GT1055]
GRP173

Description	Glutamine is a main source of energy and is involved in cell proliferation, inhibition of apoptosis, and cell signaling (Haberle et al., 2005 [PubMed 16267323]). Fetal glutamine requirements are very high and depend largely on active glutamine synthesis and the release of glutamine into the fetal circulation by the placenta. Glutamine synthetase (EC 6.3.1.2), also called glutamate-ammonia ligase (GLUL), is expressed throughout the body and plays an important role in controlling body pH and in removing ammonia from the circulation. The enzyme clears L-glutamate, the major neurotransmitter in the central nervous system, from neuronal synapses (see references in Clancy et al., 1996 [PubMed 8975719]).[supplied by OMIM]
Species/Host	Mouse
Reactivity	Human, Mouse, Rat
Conjugation	Unconjugated
Tested Applications	ICC, IF, IHC-Fr, IHC-P, WB
Immunogen	Full length human Glutamine synthetase Recombinant protein.
Form/Appearance	Liquid: PBS
Concentration	1 mg/ml
Storage	Store as concentrated solution. Centrifuge briefly prior to openin vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Note	For research use only.
Isotype	IgG1
Clonality	Monoclonal
Purity	Affinity purified by Protein G.
Clone ID	GT1055
Uniprot ID	**P15104**
Entrez	**2752**
Dilution Range	WB: 1:500-1:3000,ICC: 1:100-1:1000,IHC-P: 1:100-1:1000,IHC-Fr: 1:100-1:1000



Glutamine synthetase antibody [GT1055] detects Glutamine synthetase protein on embryonic mouse brain by immunohistochemical analysis.
Sample: Frozen section of embryonic mouse brain (mE18.5). Red: Glutamine synthetase antibody [GT1055] (GRP625) diluted at



Glutamine synthetase antibody [GT1055] detects Glutamine synthetase protein at cytosol on human hepatoma by immunohistochemical analysis.
Sample: Paraffin-embedded human hepatoma.