

## **Product Datasheet**

## **Glutamine synthetase antibody** GRP125

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	Rabbit	
Reactivity	Human, Mouse, Rat	00.
Conjugation	Unconjugated	PS San
Tested Applications	ICC, IF, IHC-Fr, IHC-P, IP, WB	Immunohistochemical
Immunogen	Full length human Glutamine synthetase Recombinant protein.	analysis of paraffin-embedded H441
Form/Appearance	Liquid: 1XPBS, 20% Glycerol (pH7). 0.025% ProClin 300 was added as a preservative.	xenograft , using Glutamine Synthetase (GRP577)
Concentration	1 mg/ml	antibody at 1:500 dilution.
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.	2031 000 000 000 000 000 000 000
Note	For research use only.	4) = → - Endogenous Gutanine synthetase 4) = → → - Endogenous Gutanine synthetase 34 -
lsotype	IgG	, Non-transfected (–) and
Clonality	Polyclonal	transfected (+) 293T whole cell extracts (30 ?g) were
Purity	Purified by antigen-affinity chromatography.	separated by 10% SDS-PAGE, and
Uniprot ID	P15104	the membrane was blotted with
Entrez	2752	Glutamine synthetase antibody (GRP577) diluted at
Dilution Range	WB: 1:5000-1:20000,ICC: 1:100-1:1000,IHC-P: 1:100-1:1000,IHC-Fr: 1:100-1:1000,IP: 1:100-1:500	1:10000. The HRP-conjugated anti-rabbit IgG antibody was use

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