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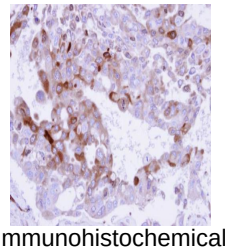
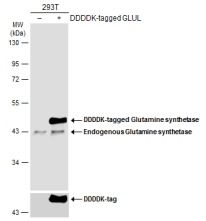
Product Datasheet

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
Conjugation	Unconjugated
Tested Applications	ICC, IF, IHC-Fr, IHC-P, IP, WB
Immunogen	Full length human Glutamine synthetase Recombinant protein.
Form/Appearance	Liquid: 1XPBS, 20% Glycerol (pH7). 0.025% ProClin 300 was added as a preservative.
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	IgG
Clonality	Polyclonal
Purity	Purified by antigen-affinity chromatography.
Uniprot ID	**P15104**
Entrez	**2752**
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



Immunohistochemical analysis of paraffin-embedded H441 xenograft , using Glutamine Synthetase (GRP577) antibody at 1:500 dilution.



Non-transfected (â€“) and transfected (+) 293T whole cell extracts (30 ?g) were separated by 10% SDS-PAGE, and the membrane was blotted with Glutamine synthetase antibody (GRP577) diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody was use