

## Product datasheet for **UM970001**

### Glutamine Synthetase (GLUL) Rabbit Monoclonal Antibody [Clone ID: UMAB296]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB296
Applications:	IHC
Recommended Dilution:	IHC 1:600
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) within Human GS(Glul) (NP_001028228). The exact sequence is proprietary.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1.00mg/ml
Purification:	Purified from cell culture supernatant by affinity chromatography(protein A/G)
Conjugation:	Unconjugated
Predicted Protein Size:	42.1 kDa
Gene Name:	glutamate-ammonia ligase
Database Link:	<a href="#">NP_001028228</a> <a href="#">Entrez Gene 2752 Human P15104</a>
Background:	The protein encoded by this gene belongs to the glutamine synthetase family. It catalyzes the synthesis of glutamine from glutamate and ammonia in an ATP-dependent reaction. This protein plays a role in ammonia and glutamate detoxification, acid-base homeostasis, cell signaling, and cell proliferation. Glutamine is an abundant amino acid, and is important to the biosynthesis of several amino acids, pyrimidines, and purines. Mutations in this gene are associated with congenital glutamine deficiency, and overexpression of this gene was observed in some primary liver cancer samples. There are six pseudogenes of this gene found on chromosomes 2, 5, 9, 11, and 12. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]



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**Synonyms:** GLNS; GS; PIG43; PIG59

**Protein Pathways:** Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Metabolic pathways, Nitrogen metabolism