



# Anti-GLS (aa 580-669) polyclonal antibody (DPAB-DC1387)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	This gene encodes the K-type mitochondrial glutaminase. The encoded protein is an phosphate-activated amidohydrolase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. This protein is primarily expressed in the brain and kidney plays an essential role in generating energy for metabolism, synthesizing the brain neurotransmitter glutamate and maintaining acid-base balance in the kidney. Alternate splicing results in multiple transcript variants.
<b>Immunogen</b>	GLS (NP_055720, 580 a.a. ~ 669 a.a) partial recombinant protein with GST tag. The sequence is EQRDYDSRTALHVAAAEGHVEVVKFLLEACKVNPFPKDRWNNTPMDEALHFGHHDVFKIL QEYQVQYTPQGSDNGKENQTVHKNLDGLL
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">GLS glutaminase [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	GLS
<b>Synonyms</b>	GLS; glutaminase; GAC; GAM; KGA; GLS1; AAD20; glutaminase kidney isoform, mitochondrial; K-glutaminase; glutaminase C; L-glutamine amidohydrolase; glutaminase, phosphate-activated;
<b>Entrez Gene ID</b>	<a href="#">2744</a>
<b>Protein Refseq</b>	<a href="#">NP_001243239</a>
<b>UniProt ID</b>	<a href="#">O94925</a>
<b>Chromosome Location</b>	2q32-q34
<b>Pathway</b>	Alanine, aspartate and glutamate metabolism; Amino acid synthesis and interconversion (transamination); Arginine and proline metabolism; D-Glutamine and D-glutamate metabolism
<b>Function</b>	glutaminase activity; protein binding;