

## Product datasheet for **AP21319BT-N**

### Guanylate kinase / GUK1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, ID, IF, IP, R, WB
Recommended Dilution:	This product is intended for use in precipitating and non-precipitating antibody-binding assays such as e.g., ELISA and Western blotting and Immunofluorescence or Histochemical techniques (1/200-1/1,000).
Reactivity:	Porcine
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Guanylate kinase isolated and purified from Porcine brain. Freund's complete adjuvant is used in the first step of the immunization procedure.
Specificity:	The reagents were evaluated for potency, purity and specificity using most or all of the following techniques: Immunoelectrophoresis, Cross-Immunoelectrophoresis, single Radial Immunodiffusion (Ouchterlony), block titration, ELISA, Immunoblotting and Enzyme Inhibition.
Formulation:	PBS, pH 7.2 without preservatives and foreign proteins. Label: Biotin State: Lyophilized IgG fraction. Molar ratio: Biotin/IgG = ~6.6
Reconstitution Method:	Restore by adding 1.0 ml sterile distilled water.
Concentration:	lot specific
Purification:	Ammonium Sulphate Precipitation and Ion Exchange Chromatography.
Conjugation:	Biotin
Storage:	Store the antibody lyophilized at 2-8°C and reconstituted at 2-8°C for one week or (in aliquots) at -20°C for longer. If a slight precipitation occurs upon storage, this should be removed by centrifugation.
Stability:	Shelf life: one year from despatch.
Database Link:	<a href="#">P31006</a>



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**Background:**

Guanylate kinase catalyzes the transfer of phosphate from adenosine triphosphate (ATP) to guanosine monophosphate (GMP) or dGMP. This enzyme functions in the recovery of cGMP and is, therefore, thought to regulate the supply of guanine nucleotides to signal transduction pathways. The GUK2 and GUK3 isoforms are determined by separate loci. Brady et al. (1996) cloned human and mouse cDNAs of GUK1. They stated that the guanylate kinases are targets for cancer chemotherapy and are inhibited by the antitumor drug 6-thioguanine. They reported that the human gene codes for a protein of 197 amino acids with a mass of 21.7 kD. They found that the 1-kb message was ubiquitously expressed.

**Synonyms:**

GMK, GMP kinase