

**GUK1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP58403**

**Specification**

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**GUK1 Polyclonal Antibody - Product Information**

Application	<b>WB, IF, E</b>
Primary Accession	<a href="#">Q16774</a>
Reactivity	<b>Rat, Pig, Bovine</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>21726</b>

**GUK1 Polyclonal Antibody - Additional Information**

**Gene ID** 2987

**Other Names**

Guanylate kinase, 2.7.4.8, GMP kinase, Guanylate kinase 1 {ECO:0000312|HGNC:HGNC:4693}, GUK1 {ECO:0000303|PubMed:8647247, ECO:0000312|HGNC:HGNC:4693}

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glycerol

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**GUK1 Polyclonal Antibody - Protein Information**

**Name** GUK1 {ECO:0000303|PubMed:8647247, ECO:0000312|HGNC:HGNC:4693}

**Function**

Catalyzes the phosphorylation of GMP to GDP. Essential enzyme for recycling GMP and indirectly, cyclic GMP (cGMP) (PubMed:<a href="http://www.uniprot.org/citations/31201273" target="\_blank">31201273</a>). Involved in the cGMP metabolism in photoreceptors (By similarity). It may also have a role in the survival and growth progression of some tumors (PubMed:<a href="http://www.uniprot.org/citations/31201273" target="\_blank">31201273</a>). In addition to its physiological role, GUK1 is essential for convert prodrugs used for the treatment of cancers and viral infections into their pharmacologically active metabolites, most notably acyclovir, ganciclovir, and 6-thioguanine and its closely related analog 6-mercaptopurine (PubMed:<a href="http://www.uniprot.org/citations/197968" target="\_blank">197968</a>, PubMed:<a href="http://www.uniprot.org/citations/6248551" target="\_blank">6248551</a>, PubMed:<a href="http://www.uniprot.org/citations/6306664" target="\_blank">6306664</a>).

**Cellular Location**

Photoreceptor inner segment {ECO:0000250|UniProtKB:Q64520}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q64520}. Note=Colocalizes with RD3 in photoreceptor inner segments

and to a lesser extent in the outer plexiform layer. {ECO:0000250|UniProtKB:Q64520}

**Tissue Location**

Widely expressed..

**GUK1 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**GUK1 Polyclonal Antibody - Images**