

**PIG3 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP19269b****Specification**

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**PIG3 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q53FA7](#)**PIG3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 9540**Other Names**

Quinone oxidoreductase PIG3, 1---, Tumor protein p53-inducible protein 3, p53-induced gene 3 protein, TP53I3, PIG3

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**PIG3 Antibody (C-term) Blocking Peptide - Protein Information****Name** TP53I3 ([HGNC:19373](#))**Synonyms** PIG3**Function**

Catalyzes the NADPH-dependent reduction of quinones (PubMed:<a href="http://www.uniprot.org/citations/19349281" target="\_blank">19349281</a>). Exhibits a low enzymatic activity with beta- naphthoquinones, with a strong preference for the ortho-quinone isomer (1,2-beta-naphthoquinone) over the para isomer (1,4-beta- naphthoquinone). Also displays a low reductase activity for non-quinone compounds such as diamine and 2,6-dichloroindophenol (in vitro) (PubMed:<a href="http://www.uniprot.org/citations/19349281" target="\_blank">19349281</a>). Involved in the generation of reactive oxygen species (ROS) (PubMed:<a href="http://www.uniprot.org/citations/19349281" target="\_blank">19349281</a>).

**PIG3 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **PIG3 Antibody (C-term) Blocking Peptide - Images**

### **PIG3 Antibody (C-term) Blocking Peptide - Background**

The protein encoded by this gene is similar to oxidoreductases, which are enzymes involved in cellular response to oxidative stresses and irradiation. This gene is induced by the tumor suppressor p53 and is thought to be involved in p53-mediated cell death. It contains a p53 consensus binding site in its promoter region and a downstream pentanucleotide microsatellite sequence. P53 has been shown to transcriptionally activate this gene by interacting with the downstream pentanucleotide microsatellite sequence. The microsatellite is polymorphic, with a varying number of pentanucleotide repeats directly correlated with the extent of transcriptional activation by p53. It has been suggested that the microsatellite polymorphism may be associated with differential susceptibility to cancer. At least two transcript variants encoding the same protein have been found for this gene.

### **PIG3 Antibody (C-term) Blocking Peptide - References**

Kotsinas, A., et al. Oncogene 29 (37), 5220 (2010) : Liu, C.Y., et al. Carcinogenesis 31(7):1259-1263(2010) Lee, J.H., et al. Oncogene 29(10):1431-1450(2010) Guey, L.T., et al. Eur. Urol. 57(2):283-292(2010) Hosgood, H.D. III, et al. Occup Environ Med 66(12):848-853(2009)