10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PIG3 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP19269b

Specification

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:19349281). 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:19349281). Involved in the generation of reactive oxygen species (ROS) (PubMed:19349281).

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 tooxidoreductases, which are enzymes involved in cellular responsesto oxidative stresses and irradiation. This gene is induced by thetumor suppressor p53 and is thought to be involved in p53-mediatedcell death. It contains a p53 consensus binding site in itspromoter region and a downstream pentanucleotide microsatellitesequence. P53 has been shown to transcriptionally activate thisgene by interacting with the downstream pentanucleotidemicrosatellite sequence. The microsatellite is polymorphic, with avarying number of pentanucleotide repeats directly correlated withthe extent of transcriptional activation by p53. It has beensuggested that the microsatellite polymorphism may be associatedwith differential susceptibility to cancer. At least two transcriptvariants 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)