

# PIG3 Polyclonal Antibody

Catalog # AP71906

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q53FA7</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	35536

## Additional Information

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<b>Gene ID</b>	9540
<b>Other Names</b>	TP53I3; PIG3; Quinone oxidoreductase PIG3; Tumor protein p53-inducible protein 3; p53-induced gene 3 protein
<b>Dilution</b>	WB--Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P--N/A IF--1:50~200 ICC--N/A E--N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	TP53I3 ( <a href="#">HGNC:19373</a> )
<b>Function</b>	NADPH:quinone reductase which expression is induced by p53/TP53 and is involved in both the DNA damage response through homologous recombination repair, and p53-mediated apoptosis (PubMed: <a href="#">19349281</a> , PubMed: <a href="#">33782397</a> ). Catalyzes the NADPH-dependent reduction of quinones, exhibiting a low enzymatic activity with beta- naphthoquinones and 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="#">19349281</a> ). The reduction of 1,2-naphthoquinone concurrently generates reactive oxygen species (ROS), which may trigger apoptosis downstream of p53/TP53 (PubMed: <a href="#">19349281</a> ).

## Background

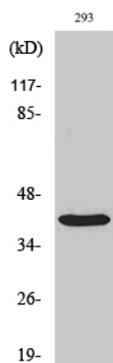
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May be involved in the generation of reactive oxygen species (ROS). Has low NADPH-dependent

beta-naphthoquinone reductase activity, with a preference for 1,2-beta-naphthoquinone over 1,4-beta-naphthoquinone. Has low NADPH-dependent diamine reductase activity (in vitro).

## Images

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Western Blot analysis of various cells using PIG3 Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.