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PIG3 Polyclonal Antibody

Catalog # AP71906

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	Q53FA7
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35536

Additional Information

Gene ID	9540
Other Names	TP53I3; PIG3; Quinone oxidoreductase PIG3; Tumor protein p53-inducible protein 3; p53-induced gene 3 protein
Dilution	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
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

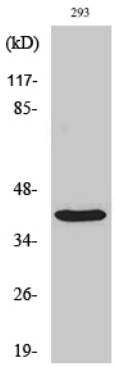
Name	TP53I3 (HGNC:19373)
Function	NADPH:quinone reductase which expression is induced by p53/TP53 and is involved in both the DNA damage response through homologous recombination repair, and p53-mediated apoptosis (PubMed:19349281, PubMed:33782397). Catalyzes the NADPH-dependent reduction of quinones, 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:19349281). The reduction of 1,2-naphthoquinone concurrently generates reactive oxygen species (ROS), which may trigger apoptosis downstream of p53/TP53 (PubMed:19349281).

Background

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



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'.