ARG57004
anti-PIG3 antibody [1C9]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1C9] recognizes PIG3
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	1C9
Isotype	IgG2a, kappa
Target Name	PIG3
Species	Human
Immunogen	Recombinant fragment around aa. 1-332 of Human PIG3.
Conjugation	Un-conjugated
Alternate Names	Quinone oxidoreductase PIG3; EC 1.-.-.-; Tumor protein p53-inducible protein 3; PIG3; p53-induced gene 3 protein

Application Instructions

Application table

Application	Dilution
ICC/IF	Assay-dependent
WB	1:3000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

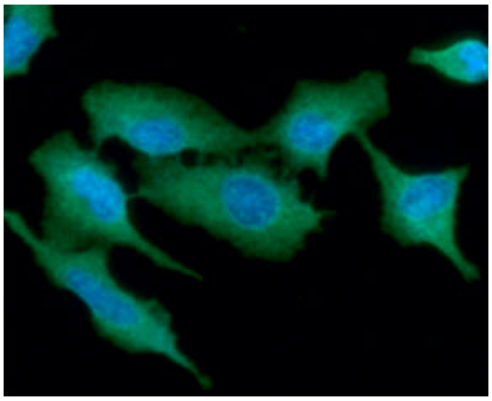
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 9540 Human Swiss-port # Q53FA7 Human
Gene Symbol	TP53I3
Gene Full Name	tumor protein p53 inducible protein 3
Background	The protein encoded by this gene is similar to oxidoreductases, which are enzymes involved in cellular responses 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2011]
Function	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). [UniProt]
Calculated Mw	36 kDa

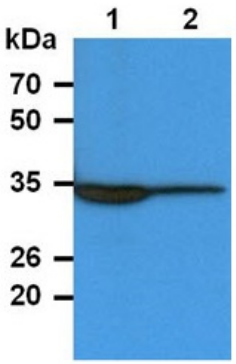
Images



ARG57004 anti-PIG3 antibody [1C9] ICC/IF image

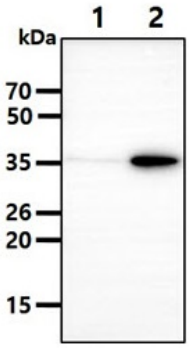
Immunoflorescense: A549 cell line stained with ARG57004 anti-PIG3 antibody [1C9] at 1:100 (Green).

DAPI (Blue) for nucleus staining.



ARG57004 anti-PIG3 antibody [1C9] WB image

Western blot: 40 µg of 1) A549 cell lysate, 2) SW480 cell lysate stained with ARG57004 anti-PIG3 antibody [1C9] at 1:3000.



ARG57004 anti-PIG3 antibody [1C9] WB image

Western blot: 1 µg of 1) 293T cell lysate, 2) TP53I3 Transfected 293T cell lysate stained with ARG57004 anti-PIG3 antibody [1C9] at 1:3000.