

Product datasheet for **AM05278PU-N**

PIG3 (TP53I3) Mouse Monoclonal Antibody [Clone ID: 10A2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10A2
Applications:	WB
Recommended Dilution:	Western Blot (5-10 µg/ml). <i>Positive Control:</i> Jurkat cell lysate.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Hybridoma produced by the fusion of splenocytes from mice immunized with recombinant Human PIG-3 protein.
Specificity:	Recognizes PIG3 (p53 inducible gene 3).
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.08% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatography
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tumor protein p53 inducible protein 3
Database Link:	<u>Entrez Gene 9540 Human Q53FA7</u>



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Background:

P53 Inducible Gene-3 (PIG-3) may be a long-lived reporter, which may be useful for detecting transient activation of p53. The p53 tumor suppressor is the most commonly mutated gene in human cancers. The p53 protein, which is stabilized in response to different biological checkpoints, is activated by DNA damage, hypoxia, viral infection, or oncogene activation resulting in effects such as cell cycle arrest, apoptosis, senescence, differentiation, and antiangiogenesis. Other genes also implicated in the downstream effects as a result of p53 activation are: p21WAF1, GADD45, 14-3-3, bax, Fas/APO1, KILLER/ DR5, Tsp1, IGF-BP3 and others. The p53-inducible gene 3 (PIG3), was recently identified in a screen for genes induced by p53 before the onset of apoptosis. PIG3 shares significant homology with the oxidoreductases from several species. PIG3 protein is localized to the cytoplasm and induced in primary, non-transformed, and transformed cell cultures after exposure to genotoxic agents. The induction of PIG3 by p53 occurs with delayed kinetics as compared with other p53 downstream targets, such as p21 and MDM2. PIG3 levels are increased during p53-mediated growth arrest. Elevated levels of PIG3 are maintained in cells that resume cycling in the absence of ectopic p53 expression.

Synonyms:

p53-induced gene 3 protein, PIG3

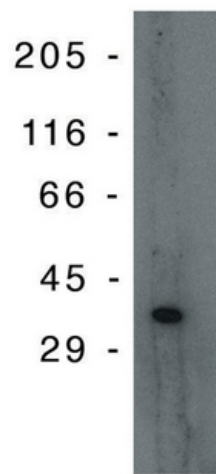
Product images:


Figure 1. Western blot analysis using PIG-3 antibody on Jurkat lysate at 10 ug/ml.