

Product datasheet for **AP05106PU-N**

PIG3 (TP53I3) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot:
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Full-length recombinant PIG-3 protein.
Specificity:	This antibody detects recombinant PIG-3 protein by Western blot.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.08% Sodium Azide
Concentration:	lot specific
Purification:	Ammonium Sulfate Precipitation
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:	Entrez Gene 9540 Human Q53FA7



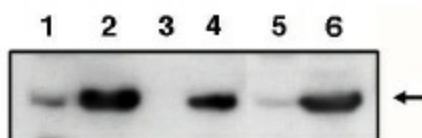
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Background:

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:

Western blot using anti-PIG3 antibody on RKO cells transfected with pCEP4 without insert (1), transfected with pCEP4-PIG3 (2), under control conditions (3) and treated with adriamycin to activate wild-type p53 (4). Also used on MCF-7 cells transfected with pCEP4 without insert (5) and pCEP4-PIG3 (6).