

anti-human PIG3 (p53 Inducible Gene 3) antibody



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Rabbit polyclonal antibody

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.

IMMUNOGEN

Antibody developed in rabbits immunized with recombinant human PIG3 protein.

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival.

STORAGE

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles.

STABILITY

Products are stable for one (1) year from purchase when stored properly.

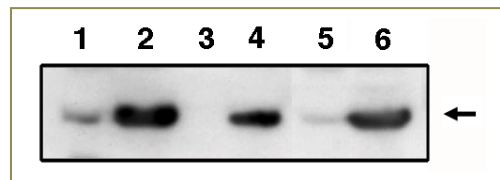
References:

1. Flatt, P.M., et al., "p53-dependent expression of PIG3 during proliferation, genotoxic stress, and reversible growth arrest." *Cancer Lett.* 2000, 156, 63-73
2. Venot, C., et al., "The requirement for the p53 proline-rich functional domain for mediation of apoptosis is correlated with specific PIG3 gene transactivation and with transcriptional repression." *EMBO J.* 1998, 17, 4668-4679

Product Data Sheet

Ordering Information

Catalog # -	E1155R
Size -	100 microgram
Form -	Unconjugated
Host/Clone -	Rabbit
Formulation -	Phosphate buffered saline with 0.08% sodium azide
Concentration -	1 milligram / ml
Isotype -	IgG
Application -	Western Blot



Legend:

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).

For research use only