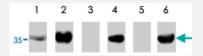


# TP53I3 polyclonal antibody

Catalog # PAB10164 Size 100 ug

## **Applications**



#### Western Blot (Cell lysate)

Western blot using TP53l3 polyclonal antibody (Cat # PAB10164) on RKO cells transfected with TP53l3 without insert (lane 1), transfected with pCEP4-TP53l3 (lane 2), under control conditions (lane3) and treated with adriamycin to activate wild-type p53 (lane 4). Also used on MCF-7 cells transfected with pCEP4 without insert (lane 5) and pCEP4-TP53l3 (lane 6).

Specification	
Product Description	Rabbit polyclonal antibody raised against full length recombinant TP53l3.
lmmunogen	Recombinant protein corresponding to full length TP53l3.
Host	Rabbit
Reactivity	Human
Form	Liquid
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.08% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.



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Gene Info — TP53I3	
Entrez GeneID	9540
Gene Name	TP53l3
Gene Alias	PIG3
Gene Description	tumor protein p53 inducible protein 3
Omim ID	<u>605171</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	The protein encoded by this gene is similar to oxidoreductases, which are enzymes involved in ce llular responses to oxidative stresses and irradiation. This gene is induced by the tumor suppress or 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 pentanu cleotide 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. At least two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000116037 p53-induced gene 3 protein quinone oxidoreductase homolog

## Publication Reference

• p53-dependent expression of PIG3 during proliferation, genotoxic stress, and reversible growth arrest.

Flatt PM, Polyak K, Tang LJ, Scatena CD, Westfall MD, Rubinstein LA, Yu J, Kinzler KW, Vogelstein B, Hill DE, Pietenpol JA. Cancer Letters 2000 Aug; 156(1):63.

Application: IF, WB-Ce, WB-Tr, Human, Fibroblasts, Keratinocytes, MCF-10A, HCT116, RKO, Hlp53, HlO, MCF-7 cells



Regulation of p53 downstream genes.

el-Deiry WS.

Seminars in Cancer Biology 1998 Sep; 8(5):345.

• The requirement for the p53 proline-rich functional domain for mediation of apoptosis is correlated with specific PIG3 gene transactivation and with transcriptional repression.

Venot C, Maratrat M, Dureuil C, Conseiller E, Bracco L, Debussche L.

The EMBO Journal 1998 Aug; 17(16):4668.

## Pathway

p53 signaling pathway

#### Disease

- Adenocarcinoma
- Breast cancer
- Breast Neoplasms
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Hematologic Diseases
- Hodgkin Disease
- Lung Neoplasms
- Lymphoma
- Lymphoproliferative Disorders
- Neoplasms
- Occupational Diseases
- Ovarian cancer
- Ovarian Neoplasms



- Pulmonary Disease
- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome