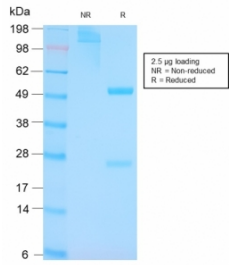
p53 Tumor Suppressor Protein Antibody [clone TP53/3156R] (V5424)

Catalog No.	Formulation	Size
V5424-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5424-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5424SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	TP53/3156R
Purity	Protein A/G affinity
UniProt	P04637
Localization	Cytoplasm, Nucleus
Applications	ELISA
Limitations	This p53 Tumor Suppressor Protein antibody is available for research use only.



SDS-PAGE analysis of purified, BSA-free p53 antibody (clone TP53/3156R) as confirmation of integrity and purity.

Description

p53 binds to a DNA consensus sequence, the p53 response element, and it regulates normal cell growth cycle events by activating transcription of genes, involved either in progression through the cycle, or causing arrest in G1 when the

genome is damaged. In most transformed and tumor cells the concentration of p53 is increased 51000 fold over the minute concentrations (1000 molecules cell) in normal cells, principally due to the increased half-life (4 h) compared to that of the wild-type (20 min). p53 Localizes in the nucleus, but is detectable at the plasma membrane during mitosis and when certain mutations modulate cytoplasmic/nuclear distribution. p53 Is the most commonly mutated gene in spontaneously occurring human cancers. Mutations arise with an average frequency of 70% but incidence varies from zero in carcinoid lung tumors to 97% in primary melanomas. High concentrations of p53 protein are transiently expressed in human epidermis and superficial dermal fibroblasts following mild ultraviolet irradiation.

Researchers studying p53 expression and TP53 signaling can explore our Protein Microarray Validated p53 Antibody page for additional reagents targeting this key tumor suppressor in cancer, DNA damage response and cell cycle research.

Application Notes

Optimal dilution of the p53 Tumor Suppressor Protein antibody should be determined by the researcher.

Immunogen

SV40-transformed mouse B4 cells were used as the immunogen for the p53 Tumor Suppressor Protein antibody.

Storage

Aliquot the p53 Tumor Suppressor Protein antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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