

LABGEN™

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p53 antibody
p53 scFv Recombinant Antibody
Catalog No. 10-192

Synonyms:

LFS1, TRP53, TP53, p53

Type:

Antibody Recombinant

Introduction:

Tumor protein p53, a nuclear protein, plays an essential role in the regulation of cell cycle, specifically in the transition from G0 to G1. It is found in very low levels in normal cells, however, in a variety of transformed cell lines, it is expressed in high amounts, and believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing DNA-binding, oligomerization and transcription activation domains. It is postulated to bind as a tetramer to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Mutants of p53 that frequently occur in a number of different human cancers fail to bind the consensus DNA binding site, and hence cause the loss of tumor suppressor activity. Alterations of the TP53 gene occur not only as somatic mutations in human malignancies, but also as germline mutations in some cancer-prone families with Li-Fraumeni syndrome.

Description:

p53 or TP53 is a cell cycle related transcription factor that promotes transcription of genes that induce cell cycle arrest or apoptosis in response to DNA damage or other cell stresses.

This tumour suppressor gene is mutated in about half of all human cancers.

Recombinant Anti p53 produced in E.Coli is a non-glycosylated, polypeptide chain containing a hexahistidine tag and having a molecular weight of 37 kDa.

p53 is purified by proprietary chromatographic techniques.

Source:

Escherichia Coli.

Physical Appearance:

Sterile Filtered clear solution.

Formulation:

p53 is supplied in 1x PBS and 50% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Purity:

Greater than 95.0% as determined by:

Analysis by RP-HPLC.

Analysis by SDS-PAGE

Usage:

LABGEN's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.