

30-2725: Anti-p53 Purified

Clonality :	Monoclonal
Clone Name :	BP53-12
Application :	FACS
Reactivity :	Human
Gene :	TP53
Gene ID :	7157
Uniprot ID :	P04637
Format :	Purified
Alternative Name :	tumor protein p53 BCC7, TRP53, TP53, LFS1
Immunogen Information :	Bacterially expressed full-length wild-type p53

Description

The tumour suppressor protein p53 is a key element of intracellular anticancer protection. It mediates cell cycle arrest or apoptosis in response to DNA damage or to starvation for pyrimidine nucleotides. It is up-regulated in response to these stress signals and stimulated to activate transcription of specific genes, resulting in expression of p21waf1 and other proteins involved in G1 or G2/M arrest, or proteins that trigger apoptosis, such as Bcl-2. The structure of p53 comprises N-terminal transactivation domain, central DNA-binding domain, oligomerisation domain, and C-terminal regulatory domain. There are various phosphorylation sites on p53, of which the phosphorylation at Ser15 is important for p53 activation and stabilization.

Specificity : The antibody BP53-12 recognizes a defined epitope (aa 16-25) on human p53, a 50 kDa intracellular tumour suppressor found in increased amounts in a wide variety of transformed cells; it is frequently mutated or inactivated in many types of cancer.

Product Info

Amount :	0.1 mg
Purification :	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).
Content :	Concentration: 1 mg/ml Storage Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Western blotting: Recommended dilution: 1-2 µg/ml, overnight at 4°C; positive control: RAMOS human lymphoma cell line, non-reducing conditions. SDS-PAGE (12% separating gel).

Immunohistochemistry: Recommended dilution: 5-10 µg/ml.

Flow cytometry: Recommended dilution: 1-4 µg/ml. Intracellular staining.