

## 30-2725: Anti-p53 Purified

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	BP53-12
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Gene :</b>	TP53
<b>Gene ID :</b>	7157
<b>Uniprot ID :</b>	P04637
<b>Format :</b>	Purified
<b>Alternative Name :</b>	tumor protein p53 BCC7, TRP53, TP53, LFS1
<b>Immunogen Information :</b>	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

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by sequential steps of physicochemical fractionation (differential precipitation and solid-phase chromatography methods).
<b>Content :</b>	Concentration: 1 mg/ml Storage Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	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.